KENDRIYA VIDYALAYA NO. 2 ITANAGAR

COMPUTER SCIENCE PROJECT ON

BANK ONLINE PORTAL

Submitted by:

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Kime Oken

Submitted to:

Mr. Saroj K.

Misra

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Certificate

This is to certify that "Priya Kumari", "Kiran yadev" & "Kime Oken" of class 12 "A" has successfully completed their Computer Science Project on Bank Online Portal prescribed by Sir "Mr. Saroj K. Misra", during the academic year 2020-21 as per the guidelines issued by the Central Board of Secondary Education.

Acknowledgement

We would like to express our special thanks of gratitude to our Computer Science Sir “Mr. Saroj K. Misra” for their able guidance and support in our Project.

We would also like to extend our gratitude to the Vice Principal Sir “Mr. Saroj K. Misra” and our families for providing us all the facilities that was required.

-Priya Kumari

-Kiran Yadev

-Kime Oken

```
import random
import pymysql
con=pymysql.connect(host='localhost',user='root',password='sunil',database='sk')
cursor=con.cursor()
ctr=0
bank=1
while bank==1:
    print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
    print("WELCOME TO BANK OF GRINGOTTS ONLINE PORTAL")
    print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
    print('Press 1 for Online Banking')
    print('Press 2 for Registering a New Bank Account')
    print('Press 3 for Cancel your Bank Account')
    print('Press 4 for Account Holder Help Services')
    print('Press 5 for Exit')
    print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
    choice=int(input("Option : "))
    print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
    if choice==1:
        def welcome_message():
            print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
            print('WELCOME TO BANK OF GRINGOTTS')
            print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
        def login():
            while True:
                us=input("Enter your username : ")
```

```
            p=(input("Enter your password :"))
            print('=======================================')
            value=(us,p)
            query="""select * from accounts where username=%s and
password=%s """
            cursor.execute(query,value)
            data_login=cursor.fetchall()
            if len(data_login)!=0:
                globals()['ctr']=1
                break
            else:
                print('LOGIN UNSUCCSESSFUL')
                print("USERNAME OR PASSWORD IS WRONG")
print('=======================================')
        return data_login
    def interface():
        welcome_message()
        b=login()
        if globals()['ctr']==1:
            i=b[0][0]
            name=b[0][2]
            print("LOGIN SUCCESSFUL")
print('=======================================')
            c=1
            while c==1:
                print('Press 1 for Depositing money')
                print('Press 2 for Withdrawing money')
                print('Press 3 for Applying KYC')
                print('Enter 4 for Loan Request')
                print('Enter 5 for Insurance Claim')
                print('Enter 6 for View Full Account Details')
```

```
            print('Press 7 for Checking balance')
            print('Press 8 for Logging out')
print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
            ch=int(input("Enter your option :- "))
            if ch==1:
                money_deposit=int(input('Amount to be deposited : '))
print('=========================================')
                cursor.execute('update accounts set balance=balance+%s where
id=%s',(money_deposit,i))
                con.commit()
                q='select balance from accounts where id=%s and username=%s'
                cursor.execute(q,(i,name))
                a=cursor.fetchall()
                a=a[0]
                for x in a:
                    print("Updated Balance : ",x)
print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
            elif ch==2:
                money_withdrawn=int(input('Amount to be withdrawn :- '))
print('=======================================')
                cursor.execute('update accounts set balance=balance-%s where
id=%s',(money_withdrawn,i))
                con.commit()
                q='select balance from accounts where id=%s and username=%s'
                cursor.execute(q,(i,name))
                a=cursor.fetchall()
                a=a[0]
                for x in a:
                    print("Updated Balance : ",x)
print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
            elif ch==3:
                q='select kyc from accounts where id=%s and username=%s'
```

```
                cursor.execute(q,(i,name))
                a=cursor.fetchall()
                a=a[0]
                for x in a:
                    condition=x
                if condition=='false':
                    print('For KYC you need to provide details from one of these
government id')
                    print('Press 1 for Aadhar Card')
                    print('Press 2 for Voter Id Card')
                    print('Press 3 for Pan Card')
                    print('Press 4 for Driving License')
print('=====================================')
                    cho=int(input("Enter your choice :- "))
print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
                    if cho==1:
                        ad=int(input("Aadhar Number : "))
                        cursor.execute('update accounts set
kyc="true",govid="aadhar_card",idno=%s where id=%s and
username=%s',(ad,i,name))
                        con.commit()
                        print("KYC Done")
                    elif cho==2:
                        vi=int(input("Voter Id Number : "))
                        cursor.execute('update accounts set
kyc="true",govid="voter_id",idno=%s where id=%s and username=%s',(vi,i,name))
                        con.commit()
                        print("KYC Done")
                    elif cho==3:
                        pc=int(input("Pan Card Number : "))
                        cursor.execute('update accounts set
kyc="true",govid="pan_card",idno=%s where id=%s and
username=%s',(pc,i,name))
```

```
                        con.commit()
                        print("KYC Done")
                    elif cho==4:
                        dl=int(input("Driving License Number : "))
                        cursor.execute('update accounts set
kyc="true",govid="driving_licence",idno=%s where id=%s and
username=%s',(dl,i,name))
                        con.commit()
                        print("KYC Done")
                    else:
                        print('Wrong Choice')
                else:
                    print('KYC Already Done')
                print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
            elif ch==4:
                q='select loan from accounts where id=%s and username=%s'
                cursor.execute(q,(i,name))
                a=cursor.fetchall()
                a=a[0]
                for x in a:
                    condition=x
                if condition=='false':
                    print('Choose Type of Loan Requested')
                    print('Press 1 for Housing Loan')
                    print('Press 2 for Personal Loan')
                    print('Press 3 for Educational Loan')
                    print('Press 4 for Agricultural Loan')
                    print('Press 5 for Vehicle Loan')
                    print('Press 6 for Gold Loan')
print('====================================')
                    cho=int(input("Enter your choice :- "))
print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
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```
                    if cho==1:
                        lo=int(input("Enter Amount of Housing Loan Required: "))
                        loi=input("Enter Income Certificate Number: ")
                        sec=input("Enter Land Document (Security) Number: ")
                        yr=int(input("Enter no. of Years you are taking loan for: "))

print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
emi=((lo*0.00583)*(((1.00583)**(yr*12))))/(((1.00583)**(yr*12))-1)
                        print("Bank of Gringotts charges an Interest of 7% on loans")
                        print("Your Requested loan amount has to be repaid
monthly")
                        print("Amount to repay the loan per month: %s",emi)
                        loa=input("Do you want to continue the loan application?
(y/n): ")
                        if loa=='y':
                            cursor.execute('update accounts set
loan="true",loan_type="housing",loan_amount=%s,loan_to_be_paid_per_month=
%s,loan_duration=%s,income_cert_number=%s,loan_security="landdocument",loa
n_security_number=%s where id=%s and username=%s',(lo,emi,yr,loi,sec,i,name))
                            con.commit()
                            print("Loan Application Approved")
print('=====================================')
print('=====================================')
                        elif loa=='n':
                            print("Loan Application Process Aborted")
print('=====================================')
                        else:
                            print("Wrong Choice")
                    elif cho==2:
                        lo=int(input("Enter Amount of Personal Loan Required: "))
                        loi=input("Enter Income Certificate Number: ")
                        secu=input("Enter which Document is been given to the
Bank: ")
```

```
                    sec=input("Enter Document (Security) Number: ")
                    yr=int(input("Enter no. of Years you are taking loan for: "))
print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
emi=((lo*0.00583)*(((1.00583)**(yr*12))))/(((1.00583)**(yr*12))-1)
                    print("Bank of Gringotts charges an Interest of 7% on loans")
                    print("Your Requested loan amount has to be repaid
monthly")
                    print("Amount to repay the loan per month: %s",emi)
                    loa=input("Do you want to continue the loan application?
(y/n): ")
                    if loa=='y':
                        cursor.execute('update accounts set
loan="true",loan_type="personal",loan_amount=%s,loan_to_be_paid_per_month=
%s,loan_duration=%s,income_cert_number=%s,loan_security=%s,loan_security_n
umber=%s where id=%s and username=%s',(lo,emi,yr,loi,secu,sec,i,name))
                        con.commit()
print('====================================')
                        print("Loan Application Approved")
print('====================================')
                    elif loa=='n':
                        print("Loan Application Process Aborted")
print('====================================')
                    else:
                        print("Wrong Choice")
                elif cho==3:
                    lo=int(input("Enter Amount of Educational Loan Required: "))
                    loi=input("Enter School Graduation Certificate Number: ")
                    secu=input("Enter which Document is been given to the
Bank: ")
                    sec=input("Enter Document (Security) Number: ")
                    yr=int(input("Enter no. of Years you are taking loan for: "))
print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
emi=((lo*0.00583)*(((1.00583)**(yr*12))))/(((1.00583)**(yr*12))-1)
```

```
                    print("Bank of Gringotts charges an Interest of 7% on loans")
                    print("Your Requested loan amount has to be repaid
monthly")
                    print("Amount to repay the loan per month: %s",emi)
                    loa=input("Do you want to continue the loan application?
(y/n): ")
                    if loa=='y':
                        cursor.execute('update accounts set
loan="true",loan_type="educational",loan_amount=%s,loan_to_be_paid_per_month
=%s,loan_duration=%s,income_cert_number=%s,loan_security=%s,loan_security_
number=%s where id=%s and username=%s',(lo,emi,yr,loi,secu,sec,i,name))
                        con.commit()
print('====================================')
                        print("Loan Application Approved")
print('====================================')
                    elif loa=='n':
                        print("Loan Application Process Aborted")
print('====================================')
                    else:
                        print("Wrong Choice")
                elif cho==4:
                    lo=int(input("Enter Amount of Agricultural Loan Required: "))
                    loi=input("Enter Income Certificate Number: ")
                    secu=input("Enter which Document is been given to the
Bank: ")
                    sec=input("Enter Document (Security) Number: ")
                    yr=int(input("Enter no. of Years you are taking loan for: "))
print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')emi=((lo*0.00583)*(
((1.00583)**(yr*12))))/(((1.00583)**(yr*12))-1)
                    print("Bank of Gringotts charges an Interest of 7% on loans")
                    print("Your Requested loan amount has to be repaid
monthly")
                    print("Amount to repay the loan per month: %s",emi)
```

```
                    loa=input("Do you want to continue the loan application?
(y/n): ")
                    if loa=='y':
                        cursor.execute('update accounts set
loan="true",loan_type="agricultural",loan_amount=%s,loan_to_be_paid_per_month
=%s,loan_duration=%s,income_cert_number=%s,loan_security=%s,loan_security_
number=%s where id=%s and username=%s',(lo,emi,yr,loi,secu,sec,i,name))
                        con.commit()
print('=====================================')
                        print("Loan Application Approved")
print('=====================================')
                    elif loa=='n':
                        print("Loan Application Process Aborted")
print('=====================================')
                    else:
                        print("Wrong Choice")
                elif cho==5:
                    lo=int(input("Enter Amount of Vehicle Loan Required: "))
                    loi=input("Enter Income Certificate Number: ")
                    yr=int(input("Enter no. of Years you are taking loan for: "))
print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
emi=((lo*0.00583)*(((1.00583)**(yr*12))))/(((1.00583)**(yr*12))-1)
                    print("Bank of Gringotts charges an Interest of 7% on loans")
                    print("Your Requested loan amount has to be repaid
monthly")
                    print("Amount to repay the loan per month: %s",emi)
                    loa=input("Do you want to continue the loan application?
(y/n): ")
                    if loa=='y':
                        cursor.execute('update accounts set
loan="true",loan_type="vehicle",loan_amount=%s,loan_to_be_paid_per_month=%
s,loan_duration=%s,income_cert_number=%s,loan_security=null,loan_security_nu
mber=null where id=%s and username=%s',(lo,emi,yr,loi,i,name))
                        con.commit()
```

```
print('====================================')
                    print("Loan Application Approved")
print('====================================')
                elif loa=='n':
                    print("Loan Application Process Aborted")
print('====================================')
                else:
                    print("Wrong Choice")
            elif cho==6:
                lo=int(input("Enter Amount of Gold Loan Required: "))
                loi=input("Enter Income Certificate Number: ")
                go=input("Enter the Type of Gold Jewel Given at the Bank: ")
                sec=input("Enter the amount of Gold given to the Bank(in
grams): ")
                yr=int(input("Enter no. of Years you are taking loan for: "))
print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
emi=((lo*0.00583)*(((1.00583)**(yr*12))))/(((1.00583)**(yr*12))-1)
                print("Bank of Gringotts charges an Interest of 7% on loans")
                print("Your Requested loan amount has to be repaid
monthly")
                print("Amount to repay the loan per month: %s",emi)
                loa=input("Do you want to continue the loan application?
(y/n): ")
                if loa=='y':
                    cursor.execute('update accounts set
loan="true",loan_type="gold",loan_amount=%s,loan_to_be_paid_per_month=%s,lo
an_duration=%s,income_cert_number=%s,loan_security=%s,loan_security_number
=%s where id=%s and username=%s',(lo,emi,yr,loi,go,sec,i,name))
                    con.commit()
print('====================================')
                    print("Loan Application Approved")
print('====================================')
                elif loa=='n':
```

```
                        print("Loan Application Process Aborted")

print('=======================================')
                    else:
                        print("Wrong Choice")
                else:
print('=======================================')
                    print("Already Loan Applied !!")
print('=======================================')
            elif ch==5:
                q='select insurance from accounts where id=%s and
username=%s'
                cursor.execute(q,(i,name))
                a=cursor.fetchall()
                a=a[0]
                for x in a:
                    condition=x
                if condition=='false':
                    print('Choose Type of Insurance')
                    print('Press 1 for Vehicle Insurance')
                    print('Press 2 for Life Insurance')
                    print('Press 3 for Property Insurance')
                    print('Press 4 for Business Insurance')

print('=======================================')
                    cho=int(input("Enter your choice :- "))
                    print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
                    if cho==1:
                        ve=input("Enter Vehicle Manufacturer: ")
                        ty=input("Enter Vehicle Type: ")
                        y=int(input("Enter Year of Manufacture: "))
                        fu=input("Enter Fuel Used: ")
```

```
                    r=input("Enter Vehicle Registration State: ")
                    rn=input("Enter Vehicle Registration Number: ")
                    if ty=='car':
                        ins=int(input("Enter Claim Amount for Car to be Insured:
"))
print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
                    ina=((ins/5)/12)-(ins/150)
                    print("Bank of Gringotts gives Insurance for cars of: ",ins)
                    print("Your Requested Insurance Claim Amount has to be
paid yearly")
                    print("Amount to pay the for Insurance Claim Amount per
year: ",ina)
                    loa=input("Do you want to continue the Insurance Claim
application? (y/n): ")
                    if loa=='y':
                        cursor.execute('update accounts set
insurance="true",insurance_type="vehicle",vehicle_manufacturer=%s,vehicle_model
=%s,vehicle_year=%s,vehicle_fuel=%s,vehicle_reg_state=%s,vehicle_reg_no=%s,i
nsurance_amount=%s,insurance_to_be_paid_per_year=%s where id=%s and
username=%s',(ve,ty,y,fu,r,rn,ins,ina,i,name))
                        con.commit()
print('========================================')
                        print("Insurance Claim Taken")
print('========================================')
                    else:
                        print("Insurance Claim Aborted")

print('========================================')
                elif ty=='bike':
                    ins=int(input("Enter Claim Amount for Bike to be Insured:
"))
print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
                    ina=((ins/5)/15)
                    print("Bank of Gringotts gives Insurance for bikes of: ",ins)
```

```
                        print("Your Requested Insurance Claim Amount has to be
paid yearly")
                        print("Amount to pay the for Insurance Claim Amount per
year: ",ina)
                        loa=input("Do you want to continue the Insurance Claim
application? (y/n): ")
                        if loa=='y':
                            cursor.execute('update accounts set
insurance="true",insurance_type="vehicle",vehicle_manufacturer=%s,vehicle_model
=%s,vehicle_year=%s,vehicle_fuel=%s,vehicle_reg_state=%s,vehicle_reg_no=%s,i
nsurance_amount=%s,insurance_to_be_paid_per_year=%s where id=%s and
username=%s',(ve,ty,y,fu,r,rn,ins,ina,i,name))
                            con.commit()
print('=====================================')
                            print("Insurance Claim Taken")
print('=====================================')
                        else:
                            print("Insurance Claim Aborted")
print('=====================================')
                elif cho==2:
                    mc=input("Enter Medical Certificate Number: ")
                    bc=input("Enter Birth Certificate Number: ")
                    ins=int(input("Enter Claim Amount to be Insured: "))
print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
                    ina=(ins/12)-(ins/20)
                    print("Bank of Gringotts gives Life Insurance of: ",ins)
                    print("Your Requested Insurance Claim Amount has to be paid
yearly")
                    print("Amount to pay the for Insurance Claim Amount per
year: ",ina)
                    loa=input("Do you want to continue the Insurance Claim
application? (y/n): ")
                    if loa=='y':
                        cursor.execute('update accounts set
insurance="true",insurance_type="life",medical_cert_no=%s,birth_cert_no=%s,insu
```

```
rance_amount=%s,insurance_to_be_paid_per_year=%s where id=%s and
username=%s',(mc,bc,ins,ina,i,name))
                        con.commit()
print('=====================================')
                        print("Insurance Claim Taken")
print('=====================================')
                    else:
                        print("Insurance Claim Aborted")
print('=====================================')
                elif cho==3:
                    dc=input("Enter Property Document Number: ")
                    fi=input("Enter FIR Number (FOR THEFT OR LOSS): ")
                    ins=int(input("Enter Claim Amount to be Insured: "))
print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
                    ina=(ins/12)/7
                    print("Bank of Gringotts gives Property Insurance of: ",ins)
                    print("Your Requested Insurance Claim Amount has to be paid
yearly")
                    print("Amount to pay the for Insurance Claim Amount per
year: ",ina)
                    loa=input("Do you want to continue the Insurance Claim
application? (y/n): ")
                    if loa=='y':
                        cursor.execute('update accounts set
insurance="true",insurance_type="property",property_no=%s,fir_no=%s,insurance
_amount=%s,insurance_to_be_paid_per_year=%s where id=%s and
username=%s',(dc,fi,ins,ina,i,name))
                        con.commit()
print('=====================================')
                        print("Insurance Claim Taken")
print('=====================================')
                    else:
                        print("Insurance Claim Aborted")
```

```
print('=======================================')
                    elif cho==4:
                        em=input("Enter Employment Building Name: ")
                        ca=input("Enter Cause of Claim: ")
                        de=input("Enter Medical/Death Certificate Number: ")
                        ins=int(input("Enter Claim Amount to be Insured: "))
print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
                        ina=(ins/12)/7
                        print("Bank of Gringotts gives Business Liability Insurance of:
",ins)
                        print("Your Requested Insurance Claim Amount has to be paid
yearly")
                        print("Amount to pay the for Insurance Claim Amount per
year: ",ina)
                        loa=input("Do you want to continue the Insurance Claim
application? (y/n): ")
                        if loa=='y':
                            cursor.execute('update accounts set
insurance="true",insurance_type="business",building_name=%s,cause_of_claim=%
s,med_death_cert_no=%s,insurance_amount=%s,insurance_to_be_paid_per_year=
%s where id=%s and username=%s',(em,ca,de,ins,ina,i,name))
                            con.commit()
print('=======================================')
                            print("Insurance Claim Taken")
print('=======================================')
                        else:
                            print("Insurance Claim Aborted")
print('=======================================')
                        else:
print('=======================================')
                            print("Insurance Already Claimed !!")
print('=======================================')
                elif ch==6:
```

```
q='select * from accounts where id=%s and username=%s'
cursor.execute(q,(i,name))
a=cursor.fetchall()
for x in a:
    print("Account Number: ",x[0])
    print('---------------------------------')
    print("Account Holder's Name: ': ",x[1])
    print('---------------------------------')
    print("Account Holder's Username': ",x[2])
    print('---------------------------------')
    print("Account Balance: ",x[4])
    print('---------------------------------')
    print("Account Holder Age: ",x[5])
    print('---------------------------------')
    print("Account Holder's Gender: ",x[6])
    print('---------------------------------')
    print("Account Holder's Number: ",x[7])
    print('---------------------------------')
    print("Account Holder's street address: ",x[8])
    print('---------------------------------')
    print("Account Holder's district address: ",x[9])
    print('---------------------------------')
    print("Account Holder's pin code address: ",x[10])
    print('---------------------------------')
    print("Account Holder's state: ",x[11])
    print('---------------------------------')
    print("Account Holder's country: ",x[12])
    print('---------------------------------')
    print("KYC: ",x[13])
    print('---------------------------------')
    print("Account Holder's Nominee: ",x[14])
```

```
                print('----------------------------------')
                print("Account Holder's Government id For KYC: ",x[15])
                print('----------------------------------')
                print("Account Holder's Government id Number For KYC: ",x[16])
                print('----------------------------------')
                print("LOAN: ",x[17])
                print('----------------------------------')
                if x[17]=='true':
                    print("Account Holder's Loan Type: ",x[18])
                    print('----------------------------------')
                    print("Account Holder's Loan Amount: ",x[19])
                    print('----------------------------------')
                    print("Account Holder's Loan Amount to be Paid per Month:
",x[20])
                    print('----------------------------------')
                    print("Account Holder's Loan Duration: ",x[21])
                    print('----------------------------------')
                    print("Account Holder's Income Certificate Number: ",x[22])
                    print('----------------------------------')
                    print("Account Holder's Loan Security: ",x[23])
                    print('----------------------------------')
                    print("Account Holder's Loan Security Number/Weight:
",x[24])
                    print('----------------------------------')
                print("INSURANCE: ",x[25])
                print('----------------------------------')
                if x[25]=='true':
                    print("Account Holder's Insurance Type: ",x[26])
                    print('----------------------------------')
                    if x[26]=='vehicle':
                        print("Account Holder's Insurance Amount: ",x[27])
                        print('----------------------------------')
```

```
                print("Account Holder's Insurance Amount to be Paid per
Year: ",x[28])
                print('----------------------------------')
                print("Account Holder's Insurance Vehicle Manufacturer:
",x[29])
                print('----------------------------------')
                print("Account Holder's Insurance Vehicle Model: ",x[30])
                print('----------------------------------')
                print("Account Holder's Insurance Vehicle Model Year:
",x[31])
                print('----------------------------------')
                print("Account Holder's Insurance Vehicle Fuel Type:
",x[32])
                print('----------------------------------')
                print("Account Holder's Insurance Vehicle Registered State:
",x[33])
                print('----------------------------------')
                print("Account Holder's Insurance Vehicle Registered
Number: ",x[34])
                print('----------------------------------')
            elif x[26]=='life':
                print("Account Holder's Insurance Amount: ",x[27])
                print('----------------------------------')
                print("Account Holder's Insurance Amount to be Paid per
Year: ",x[28])
                print('----------------------------------')
                print("Account Holder's Medical Certificate Number:
",x[35])
                print('----------------------------------')
                print("Account Holder's Birth Certificate Number: ",x[36])
                print('----------------------------------')
            elif x[26]=='property':
                print("Account Holder's Insurance Amount: ",x[27])
                print('----------------------------------')
```

```
                        print("Account Holder's Insurance Amount to be Paid per
Year: ",x[28])
                        print('----------------------------------')
                        print("Account Holder's Insurance Property Number:
",x[37])
                        print('----------------------------------')
                        print("Account Holder's FIR Number (Incase of Theft or
Damage to Property): ",x[38])
                        print('----------------------------------')
                    elif x[26]=='business':
                        print("Account Holder's Insurance Amount: ",x[27])
                        print('----------------------------------')
                        print("Account Holder's Insurance Amount to be Paid per
Year: ",x[28])
                        print('----------------------------------')
                        print("Account Holder's Insured Building Name: ",x[39])
                        print('----------------------------------')
                        print("Account Holder's Insurance Amount Claiming Cause:
",x[40])
                        print('----------------------------------')
                        print("Account Holder's Insurance Amount Claiming
Medical/Death Certificate Number: ",x[41])
                        print('----------------------------------')
            elif ch==7:
                q='select balance from accounts where id=%s and username=%s'
                cursor.execute(q,(i,name))
                a=cursor.fetchall()
                a=a[0]
                for x in a:
                    print("Balance :- ",x)
print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
            elif ch==8:
                c=0
```

```
                else:
                    print("Wrong Option ")
print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
        interface()
    elif choice==2:
        print('FILL THESE DETAILS TO CREATE YOUR ACCOUNT')
        idea=random.randint(1,100)
        name=input("Enter your name : ")
        username=input('Enter your username : ')
        pas=input('Enter your password : ')
        balance=float(input('Enter your balance : '))
        age=int(input('Enter your age : '))
        gender=input('Enter your gender (M/F) : ')
        mob=int(input('Enter Mobile no. : '))
        street=input('Enter your street name: ')
        district=input('Enter your District: ')
        pincode=int(input('Enter your Pincode: '))
        state=input('Enter State: ')
        country=input('Enter your Country: ')
        nominee=input("Enter Nominee Name (Incase after Death the Account
Credentials has to be handed Over): ")
        print('=====================================')
        kyc='false'
        loan='false'
        insurance='false'
        query='insert into accounts
values(%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,null,null,%s,null,nu
ll,null,null,null,null,null,%s,null,null,null,null,null,null,null,null,null,null,null,null,null,nul
l,null,null);'
value=(idea,name,username,pas,balance,age,gender,mob,street,district,pincode,stat
e,country,kyc,nominee,loan,insurance)
        cursor.execute(query,value)
        con.commit()
```

```
print('=======================================')
print('Bank Account Successfully Created')
    elif choice==3:
        us=input("Enter your username :- ")
        p=(input("Enter your password :-"))
print('''=======================================''')
        value=(us,p)
        query="select * from accounts where username=%s and password=%s "
        cursor.execute(query,value)
        data_login=cursor.fetchall()
        cursor.execute('delete from accounts where id=%s and
username=%s',(data_login[0][0],data_login[0][2]))
        con.commit()
print('=======================================')
print('Bank Account Successfully Closed')
    elif choice==4:
        print('TOLL FREE NO - 180012345678 90')
        print('=======================================')
    elif choice==5:
        bank=0
    else:
        print('Wrong Option')
        print('>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>')
```

END OF SOURCE CODE

(IMPORTANT) Read Me Before Running The Program ! (1).txt - Notepad

File Edit Format View Help

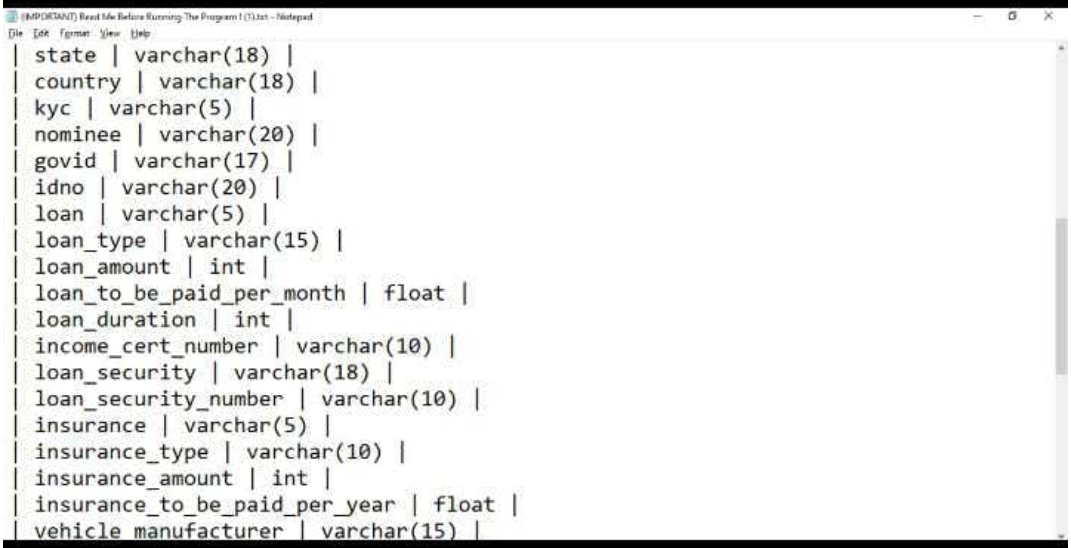
Developed by priya, kiran, oken of school K. V. no. 2 ita.

INSTRUCTIONS:

1.Create a DataBase in MySQL named 'sk'.

2.Create a Table named 'accounts' with the following Fields Names and Field Types:

```
+---------------
| Field | Type |
+---------------
| id | int |
| name | varchar(20) |
| username | varchar(10) |
| password | varchar(13) |
| balance | float |
| age | int |
| gender | char(1) |
| mobile | bigint |
| street | varchar(30) |
| district | varchar(30) |
| pincode | int |
```


(IMPORTANT) Read Me Before Running The Program ! (1).txt - Notepad
File Edit Format View Help
state	varchar(18)
country	varchar(18)
kyc	varchar(5)
nominee	varchar(20)
govid	varchar(17)
idno	varchar(20)
loan	varchar(5)
loan_type	varchar(15)
loan_amount	int
loan_to_be_paid_per_month	float
loan_duration	int
income_cert_number	varchar(10)
loan_security	varchar(18)
loan_security_number	varchar(10)
insurance	varchar(5)
insurance_type	varchar(10)
insurance_amount	int
insurance_to_be_paid_per_year	float
vehicle_manufacturer	varchar(15)

vehicle_model	varchar(10)
vehicle_year	int
vehicle_fuel	varchar(10)
vehicle_reg_state	varchar(18)
vehicle_reg_no	varchar(10)
medical_cert_no	varchar(10)
birth_cert_no	varchar(10)
property_no	varchar(10)
fir_no	varchar(10)
building_name	varchar(25)
cause_of_claim	varchar(10)
med_death_certificate_no	varchar(10)

3.Now You can Run the Program in PYTHON.

ENJOY MAINTAINING ACCOUNTS ONLINE !!!!!

OUTPUT

```
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
WELCOME TO BANK OF GRINGOTTS ONLINE PORTAL
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
Press 1 for Online Banking
Press 2 for Registering a New Bank Account
Press 3 for Cancel your Bank Account
Press 4 for Account Holder Help Services
Press 5 for Exit
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
Option : 1
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
WELCOME TO BANK OF GRINGOTTS
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
Enter your username : wizard
Enter your password :potter
========================================
LOGIN SUCCESSFUL
========================================
Press 1 for Depositing money
Press 2 for Withdrawing money
Press 3 for Applying KYC
Enter 4 for Loan Request
Enter 5 for Insurance Claim
Enter 6 for View Full Account Details
Press 7 for Checking balance
Press 8 for Logging out
```

>>

Enter your option :- 1

Amount to be deposited : 10500

==========

Updated Balance : 64500.0

>>

Press 1 for Depositing money

Press 2 for Withdrawing money

Press 3 for Applying KYC

Enter 4 for Loan Request

Enter 5 for Insurance Claim

Enter 6 for View Full Account Details

Press 7 for Checking balance

Press 8 for Logging out

>>

Enter your option :- 2

Amount to be withdrawn :- 1600

==========

Updated Balance : 62900.0

>>

Press 1 for Depositing money

Press 2 for Withdrawing money

Press 3 for Applying KYC

Enter 4 for Loan Request

Enter 5 for Insurance Claim

Enter 6 for View Full Account Details

Press 7 for Checking balance

Press 8 for Logging out

>>

Enter your option :- 3

For KYC you need to provide details from one of these government id

Press 1 for Aadhar Card

Press 2 for Voter Id Card

Press 3 for Pan Card

Press 4 for Driving License

==========

Enter your choice :- 4

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Driving License Number : 54548595

KYC Done

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Press 1 for Depositing money

Press 2 for Withdrawing money

Press 3 for Applying KYC

Enter 4 for Loan Request

Enter 5 for Insurance Claim

Enter 6 for View Full Account Details

Press 7 for Checking balance

Press 8 for Logging out

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Enter your option :- 4

Choose Type of Loan Requested

Press 1 for Housing Loan

Press 2 for Personal Loan

Press 3 for Educational Loan

Press 4 for Agricultural Loan

Press 5 for Vehicle Loan

Press 6 for Gold Loan

==========

Enter your choice :- 2

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Enter Amount of Personal Loan Required: 150000

Enter Income Certificate Number: b254s98

Enter which Document is been given to the Bank: house

Enter Document (Security) Number: 4242_2013

Enter no. of Years you are taking loan for: 2

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Bank of Gringotts charges an Interest of 7% on loans

Your Requested loan amount has to be repaid monthly

Amount to repay the loan per month: %s 6715.614863909894

Do you want to continue the loan application? (y/n): y

Loan Application Approved

==========

Press 1 for Depositing money

Press 2 for Withdrawing money

Press 3 for Applying KYC

Enter 4 for Loan Request

Enter 5 for Insurance Claim

Enter 6 for View Full Account Details

Press 7 for Checking balance

Press 8 for Logging out

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Enter your option :- 5

Choose Type of Insurance

Press 1 for Vehicle Insurance

Press 2 for Life Insurance

Press 3 for Property Insurance

Press 4 for Business Insurance

==========

Enter your choice :- 2

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Enter Medical Certificate Number: co1867_321

Enter Birth Certificate Number: lw754s695

Enter Claim Amount to be Insured: 100000

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Bank of Gringotts gives Life Insurance of: 100000

Your Requested Insurance Claim Amount has to be paid yearly

Amount to pay the for Insurance Claim Amount per year: 3333.333333333334

Do you want to continue the Insurance Claim application? (y/n): y

Insurance Claim Taken

==========

Press 1 for Depositing money

Press 2 for Withdrawing money

Press 3 for Applying KYC

Enter 4 for Loan Request

Enter 5 for Insurance Claim

Enter 6 for View Full Account Details

Press 7 for Checking balance

Press 8 for Logging out

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Enter your option :- 6

Account Number: 5

Account Holder's Name: ': harry_potter

Account Holder's Username': wizard

Account Balance: 62900.0

Account Holder Age: 18

Account Holder's Gender: m

Account Holder's Number: 8906547565

Account Holder's street address: 1_pivotdrive

Account Holder's district address: littlewhinging_surrey

Account Holder's pincode address: 100051

Account Holder's state: london

Account Holder's country: america

KYC: true

Account Holder's Nominee: albus_potter

Account Holder's Government id For KYC: driving_licence

Account Holder's Government id Number For KYC: 54548595

LOAN: true

Account Holder's Loan Type: personal

Account Holder's Loan Amount: 150000

Account Holder's Loan Amount to be Paid per Month: 6715.61

Account Holder's Loan Duration: 2

Account Holder's Income Certificate Number: b254s98

Account Holder's Loan Security: house

Account Holder's Loan Security Number/Weight: 4242_2013

INSURANCE: true

Account Holder's Insurance Type: life

Account Holder's Insurance Amount: 100000

Account Holder's Insurance Amount to be Paid per Year: 3333.33

Account Holder's Medical Certificate Number: co1867_321

Account Holder's Birth Certificate Number: lw754s695

Press 1 for Depositing money

Press 2 for Withdrawing money

Press 3 for Applying KYC

Enter 4 for Loan Request

Enter 5 for Insurance Claim

Enter 6 for View Full Account Details

Press 7 for Checking balance

Press 8 for Logging out

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Enter your option :- 8

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

WELCOME TO BANK OF GRINGOTTS ONLINE PORTAL

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Press 1 for Online Banking

Press 2 for Registering a New Bank Account

Press 3 for Cancel your Bank Account

Press 4 for Account Holder Help Services

Press 5 for Exit

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Option : 2

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

FILL THESE DETAILS TO CREATE YOUR ACCOUNT

Enter your name : harry_potter

Enter your username : wizard

Enter your password : potter

Enter your balance : 54000

Enter your age : 18

Enter your gender (M/F) : m

Enter Mobile no. : 8906547565

Enter your street name: 1_pivotdrive

Enter your District: littlewhinging_surrey

Enter your Pincode: 100051

Enter State: london

Enter your Country: america

Enter Nominee Name (Incase after Death the Account Credentials has to be handed Over): albus_potter

==========

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

WELCOME TO BANK OF GRINGOTTS ONLINE PORTAL

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Press 1 for Online Banking

Press 2 for Registering a New Bank Account

Press 3 for Cancel your Bank Account

Press 4 for Account Holder Help Services

Press 5 for Exit

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Option : 3

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Enter your username :- wizard

Enter your password :-potter

==========

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

WELCOME TO BANK OF GRINGOTTS ONLINE PORTAL

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Press 1 for Online Banking

Press 2 for Registering a New Bank Account

Press 3 for Cancel your Bank Account

Press 4 for Account Holder Help Services

Press 5 for Exit

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Option : 4

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

TOLL FREE NO – 18001234567890

>>

WELCOME TO BANK OF GRINGOTTS ONLINE PORTAL

>>

Press 1 for Online Banking

Press 2 for Registering a New Bank Account

Press 3 for Cancel your Bank Account

Press 4 for Account Holder Help Services

Press 5 for Exit

>>

Option : 5

SQL TABLE

mysql> desc accounts;

```
+----------------------------+------------+------+-----+---------+-------+
| Field                      | Type       | Null | Key | Default | Extra |
+----------------------------+------------+------+-----+---------+-------+
| id                         | int        | YES  |     | NULL    |       |
| name                       | varchar(20) | YES  |     | NULL    |       |
| username                   | varchar(10) | YES  |     | NULL    |       |
| password                   | varchar(13) | YES  |     | NULL    |       |
| balance                    | float      | YES  |     | NULL    |       |
| age                        | int        | YES  |     | NULL    |       |
| gender                     | char(1)    | YES  |     | NULL    |       |
| mobile                     | bigint     | YES  |     | NULL    |       |
| street                     | varchar(30) | YES  |     | NULL    |       |
| district                   | varchar(30) | YES  |     | NULL    |       |
| pincode                    | int        | YES  |     | NULL    |       |
| state                      | varchar(18) | YES  |     | NULL    |       |
| country                    | varchar(18) | YES  |     | NULL    |       |
| kyc                        | varchar(5) | YES  |     | NULL    |       |
| nominee                    | varchar(20) | YES  |     | NULL    |       |
| govid                      | varchar(17) | YES  |     | NULL    |       |
| idno                       | varchar(20) | YES  |     | NULL    |       |
| loan                       | varchar(5) | YES  |     | NULL    |       |
| loan_type                  | varchar(15) | YES  |     | NULL    |       |
| loan_amount                | int        | YES  |     | NULL    |       |
| loan_to_be_paid_per_month  | float      | YES  |     | NULL    |       |
| loan_duration              | int        | YES  |     | NULL    |       |
| income_cert_number         | varchar(10) | YES  |     | NULL    |       |
| loan_security              | varchar(18) | YES  |     | NULL    |       |
```

```
| loan_security_number         | varchar(10) | YES |     | NULL    |       |
| insurance                    | varchar(5)  | YES |     | NULL    |       |
| insurance_type               | varchar(10) | YES |     | NULL    |       |
| insurance_amount             | int         | YES |     | NULL    |       |
| insurance_to_be_paid_per_year | float      | YES |     | NULL    |       |
| vehicle_manufacturer         | varchar(15) | YES |     | NULL    |       |
| vehicle_model                | varchar(10) | YES |     | NULL    |       |
| vehicle_year                 | int         | YES |     | NULL    |       |
| vehicle_fuel                 | varchar(10) | YES |     | NULL    |       |
| vehicle_reg_state            | varchar(18) | YES |     | NULL    |       |
| vehicle_reg_no               | varchar(10) | YES |     | NULL    |       |
| medical_cert_no              | varchar(10) | YES |     | NULL    |       |
| birth_cert_no                | varchar(10) | YES |     | NULL    |       |
| property_no                  | varchar(10) | YES |     | NULL    |       |
| fir_no                       | varchar(10) | YES |     | NULL    |       |
| building_name                | varchar(25) | YES |     | NULL    |       |
| cause_of_claim               | varchar(10) | YES |     | NULL    |       |
| med_death_certificate_no     | varchar(10) | YES |     | NULL    |       |
+------------------------------+-------------+-----+-----+---------+-------+
42 rows in set (0.10 sec)
```

mysql> select * from accounts;

```
+------+------------+-----------+---------+---------+-----+--------+-----------+---------
--------------+----------------------+---------+-----------+---------+-----+---------+-----
------+--------------+------+----------+-----------+------------------------+-----------
---+------------------+--------------+--------------------+----------+--------------+----
-------------+------------------------------+--------------------+--------------+------------
-+-------------+-----------------+--------------+----------------+--------------+--------
----+--------+--------------+--------------+------------------------+
| id   | name       | username   | password | balance | age  | gender | mobile     |
street               | district             | pincode | state      | country | kyc  | nominee |
govid       | idno         | loan | loan_type | loan_amount |
```

```
loan_to_be_paid_per_month | loan_duration | income_cert_number | loan_security |
loan_security_number | insurance | insurance_type | insurance_amount |
insurance_to_be_paid_per_year | vehicle_manufacturer | vehicle_model |
vehicle_year | vehicle_fuel | vehicle_reg_state | vehicle_reg_no | medical_cert_no |
birth_cert_no | property_no | fir_no | building_name | cause_of_claim |
med_death_certificate_no |

+------+------------+-----------+----------+---------+------+--------+-----------+---------
---------------+---------------------+---------+-----------+---------+------+---------+------
-------+--------------+------+-----------+------------+-------------------------+-----------
---+-------------------+--------------+-------------------+----------+---------------+----
--------------+----------------------------+--------------------+--------------+------------
-+--------------+-------------------+---------------+---------------+---------------+---------
----+--------+--------------+---------------+-------------------------+

|   89 | sunil_kumar | whitedevil | password |  163190 |   17 | M      | 7395936136 |
29_muthulakshmi_street | thiruvanmiyur_chennai |  600041 | tamil_nadu | india   |
true | sumathy | aadhar_card | 7035516999647 | true | housing   |      100000 |
3087.53 |             3 | B367_2020          | landdocument  | 4759_2019            | true
| vehicle        |          250000 |                          2500 | bmw                 | car
|        2020 | diesel       | tamilnadu         | tn07ch8005     | NULL            | NULL
| NULL         | NULL   | NULL           | NULL            | NULL                    |

+------+------------+-----------+----------+---------+------+--------+-----------+---------
---------------+---------------------+---------+-----------+---------+------+---------+------
-------+--------------+------+-----------+------------+-------------------------+-----------
---+-------------------+--------------+-------------------+----------+---------------+----
--------------+----------------------------+--------------------+--------------+------------
-+--------------+-------------------+---------------+---------------+---------------+---------
----+--------+--------------+---------------+-------------------------+

1 row in set (0.00 sec)
```

BIBLIOGRAPHY

Python.challenge.com

Python.org

Computer Science with Python by Sumita Arora class 12