

DEVELOPED BY SUNIL

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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 : ")
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        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 UNSUCCESSFUL')
            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')

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[illegible]

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        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))

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[illegible]

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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: ")

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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)

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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)
```



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        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()
```

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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':
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        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: ")

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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)
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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

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insurance_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")

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```
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:
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```
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])
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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('-----')

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Year: ",x[28])
print("Account Holder's Insurance Amount to be Paid per
print('-----')
",x[29])
print("Account Holder's Insurance Vehicle Manufacturer:
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('-----')

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[illegible]

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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,%s,null,null,%s,null,nul
ll,null,null,null,null,null,%s,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()
```

[illegible]

END OF SOURCE CODE