ADVANCED ATM MACHINE IN PYTHON

SOURCE CODE

```python
import random
CIN = random.randint(1094785800,9999999999)
TID=random.randint(12345555,543211111)
FN=random.randint(123455,5432111)




pin_code = 1234
amount = 100000
acc_no = 20424637245
acc_holder_name = "NAVIN KUMAR"
print("\n\n")
print("\tSWIPE YOUR CARD\t")
pc = int(input("ENTER YOUR PIN CODE : "))
if pc==pin_code:
    while(True):
        print("\n\n")
        print("1. BANKING .")
        print("2. OPEN / WITHDRAW FIXED DEPOSIT .")
        print("3. PAY UTILITY BILLS .")
        print("4. PAY INCOME TAX .")
        print("5. PAY INSURANCE PREMIUM .")
        print("6. APPLY FOR PERSONAL LOANS .")
        print("7. EXIT .")

        choice=int(input("ENTER YOUR CHOICE : "))

        #     BANKING   PARTS   START     HERE


        if choice == 1:                    #   banking
            print("\n\n")
            print("\n\tWELCOME TO BANKING  ZONE ...\n")
            print("1. WITHDRAW CASH .")
            print("2. DEPOSIT CASH / CHEQUE .")
            print("3. TRANSFER MONEY .")
            print("4. BALANCE ENQUIRY .")
            print("5. PIN CHANGE .")
            print("6. EXIT .")
            print("\n\n")

            ch1=int(input("ENTER YOUR CHOICE : "))
            if ch1 == 1:
                withdraw_amt=int(input("\nENTER AMOUNT TO WITHDRAW : "))

                if withdraw_amt > amount:
                    print("\n")
                    print("INSUFFICIENT AMOUNT IN YOUR ACCOUNT \nPLEASE ENTER A VALID AMOUNT !")
                    print("\n\n")
                else:
                    print("\n")
                    print("TRANSACTION IS SUCCESSFUL")
                    print("COLLECT YOUR RS " ,withdraw_amt," CASH BEFORE LEAVING ATM")
                    print("YOUR TRANSACTION ID IS : ",TID)
                    amount = amount - withdraw_amt
                    print("ACCOUNT BALANCE : ",amount)
                    print("\n\n")
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        elif ch1 == 2:
            print("\n\nPLEASE PUT YOUR CASH / CHEQUE INTO MACHINE FIRST . THEN , ")
            deposit_amt=int(input("\nENTER AMOUNT TO DEPOSIT : "))

            if deposit_amt > 50000:
                print("\n")
                print("\nCROSSES MAXIMUM DEPOSIT LIMIT.  \nPLEASE ENTER A VALID AMOUNT BETWEEN 100.00  AND 50,000.00
!")

                print("\n\n")
            else:
                print("\n")
                print("TRANSACTION IS SUCCESSFUL")
                print("YOUR TRANSACTION ID IS : ",TID)
                print("\n")
                print("PLEASE COLLECT YOUR RECEIPT....")
                print("\n\n")
                amount = amount + deposit_amt

        elif ch1 == 3:
            print("\n\n")
            bf_name=input("ENTER BENEFICIARY NAME : ")
            bf_ac= int(input("ENTER BENEFICIARY ACCOUNT NUMBER : "))
            bf_ac_r= int(input("RE-ENTER BENEFICIARY ACCOUNT NUMBER : "))
            if bf_ac == bf_ac_r:
                while(True):
                    transfer_amt=int(input("ENTER AMOUNT TO TRANSFER : "))

                    if transfer_amt > amount:
                        print("\n\n")
                        print("INSUFFICIENT AMOUNT IN YOUR ACCOUNT FOR TRANSFERRING RS  ",transfer_amt," TO
",bf_name)
                    elif transfer_amt > 50000:
                        print("\n\n")
                        print("TRANSFER LIMIT EXCEEDED..\n\nPLEASE ENTER AMOUNT OF LESS THAN RS 50,000.00")
                    else:
                        print("\n")
                        print("YOU HAVE  SUCCESSFULLY TRANSFERRED RS ",transfer_amt, " TO ",bf_name)
                        amount = amount - transfer_amt
                        print("YOUR TRANSACTION ID  IS : ",TID)
                        print("LEFT BALANCE IN YOUR ACCOUNT : ",amount)
                        print("\n")
                        print("PLEASE COLLECT YOUR RECEIPT....")
                        print("\n\n")

            else:
                print("ACCOUNT NUMBER DIDN'T MATCH .\n\nRE-ENTER BENIFICIARY ACCOUNT NUMBER..")
                print("\n\n")



        elif ch1 == 4:
            print("YOUR SAVING ACCOUNT BALANCE IS : ",amount)
            print("\n\n")

        elif ch1 == 5:
            cuurent_pin_code=int(input("ENTER YOUR CURRENT PIN CODE : "))
            if cuurent_pin_code == pin_code:
                while(True):
                    new_pin_code=int(input("ENTER YOUR NEW PIN CODE:"))
                    pin_code = new_pin_code
                    print("\n")
                    print("YOUR PIN CODE HAS BEEN  UPDATED SUCCESSFULLY  .\n")
                    print("YOUR NEW PIN CODE IS : ",pin_code,", KEEP REMEMBER IT FOR FUTURE USE")
                    print("\nFOR COUNTINUING START FROM STARTING AS YOUR PIN CODE GOT UPDATED")
                    print("THANK YOU")



            else:
                print("\n")
                print("YOU HAVE ENTERED INVALID CURRENT PIN CODE ! , TRY AGAIN ..")
                print("\n\n")


        elif ch1 == 6:
            exit()
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        else:
            print("\n\n\tPLEASE ENTER A VALID CHOICE BETWEEN 1 TO 6 !\n\nTRY AGAIN WITH VALID CHOICE ...\n\n")

#     BANKING    PARTS    ENDS       HERE




#      STARTING    FIXED    DEPOSIT      PART



    elif choice == 2:
        print("\n\n")
        print("\tWELCOME TO FIXED DEPOSIT  ZONE ...\n")
        print("1. OPEN A NEW FIXED DEPOSIT .")
        print("2. WITHDRAW EXISTING FIXED DEPOSIT .")
        print("3. VIEW YOUR FIXED DEPOSIT DETAILS .")
        print("3. EXIT .")
        print("\n\n")

        ch2 =int(input("ENTER YOUR CHOICE : "))
        if ch2  == 1:
            print("\n\n")
            print("YOU ARE WELCOME HERE TO OPEN A NEW FIXED DEPOSIT\n\n")
            print("PLEASE READ CAREFULLY AND  FILL OUT THE  DETAILS CORRECTLY\n\n")
            print("WE ACCEPT ONE OF THESE DOCUMENT AS KYC / ADDRESS PROOF .IT MUST BE IN YOUR NAME .\n\n")
            print("  ADHAAR CARD   |   PAN CARD   |     PASSPORT    |  VOTER ID  |  DRIVING LICENCE  | GOVT. ID
CARD ")

            kyc_doc=input("ENTER YOUR KYC DOCUMENT NAME : ")
            kyc_doc_num=input("ENTER YOUR KYC DOCUMENT NUMBER : ")
            name=input("ENTER YOUR NAME : ")
            dob=input("ENTER YOUR DATE OF BIRTH (dd-mm-yyyy): ")
            fd_amt=input("ENTER A FIXED DEPOSIT AMOUNT : ")
            fd_time=input("FOR HOW LONG , YOU WANT TO FIX YOUR  FD : ")

            print("CONGRATULATIONS !!,  YOU HAVE SUCCESSFULLY CREATED YOUR FD WITH AMOUNT OF RS ",fd_amt,"WITH US .")
            print("YOUR FD  FOLIO NUMBER IS : ",FN)
            folio_number= FN
            print("\n\nTHANK YOU FOR SHOWING TRUST IN US .\n\n")


        elif ch2 == 2:
            del_fd_ac=int("PLEASE ENTER YOUR ACCOUNT NUMBER LINKED WITH FD : ")
            if  del_fd_ac == acc_no:
                while(True):
                    decision=input("ARE YOU SURE TO WITHDRAW FD (y/n) : ")
                    if decision ==y or decision == Y or decision ==YES or decision ==yes:
                        print("\n\nSORRY TO HEAR , YOU'RE WITHDRAWING YOUR FD .")
                        print("\nPLEASE COLLECT YOUR AMOUNT FROM THE COUNTER WITH TOKEN NO. :",TID)
                        print("\nHOPE TO SERVE YOU IN A MORE BETTER WAY NEXT TIME\n\n")
                    else:
                        print("\n\nTHANK YOU STAYING INVESTED IN  FD..")
            else:
                print("\n\nSORRY !, THERE IS NO ANY FD LINKED TO  ACCOUNT THAT YOU'VE ENTERED :",del_fd_ac)
                print("\n\nPLEASE TRY AGAIN WITH VALID ACCOUNT NUMBER\n\n")

        elif ch2 == 3:
            print("\n\nYOUR FIXED DEPOSIT DETAILS ARE  GIVEN BELOW : \n\n")
            print("ACCOUNT HOLDER NAME : ",name)
            print("\nFOLIO NUMBER: ",folio_number)
            print("\nFIXED DEPOSIT AMOUNT : ",fd_amt)
            print("\nKYC DOCUMENT NAME :",kyc_doc)
            print("\nKYC NUMBER : ",kyc_doc_num)
            print("\nFIXED DEPOSIT TIME : ",fd_time)
            print("\nDATE OF BIRTH : ",dob)

        elif ch2 == 3:
            exit()

        else:
            print("\n\nPLEASE ENTER A VALID CHOICE BETWEEN 1 TO 3 !\n\nTRY AGAIN WITH VALID CHOICE ...")
```

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        #   ENDING   FIXED  DEPOSIT    PART




    #  PAY    UTILITY   BILLS    SECTION  STARTED HERE




    elif choice == 3:
        print("\n\n")
        print("\tWELCOME TO UTILITY BILL  ZONE ...\n")
        print("1. RECHARGE / PAY MOBILE BILL .")
        print("2. PAY ELECTRIC BILL .")
        print("3. PAY GAS BILL .")
        print("4. EXIT .")

        ch3 = int(input("ENTER YOUR CHOICE : "))

        if ch3 == 1:
            print("\n\n")
            print("ENTER YOUR DETAILS FOR MOBILE RECHARGE / BILL PAYMENT \n\n")
            mobile_no = int(input("ENTER YOUR MOBILE NUMBER : "))
            operator = input("ENTER YOUR  OPERATOR : ")
            recharge_amt=int(input("ENTER RECHARGE AMOUNT : "))
            print("\n\tYOUR RECHARGE FOR MOBLIE NO . - ",mobile_no,"AMOUNTING Rs ",recharge_amt," IS SUCCESSFULL !!
\n")

            print("YOUR TRANSACTION  ID IS : ",TID)
            print("\nTHANK YOU FOR USING OUR SERVICE.....\n")


        elif ch3==2:
            print("\n\n")
            print("ENTER YOUR DETAILS FOR PAYING ELECTRIC BILL --- \n\n")
            provider = input("ENTER YOUR ELECTRIC PROVIDER NAME : ")
            ca_no = int(input("ENTER YOUR CONSUMER ACC. NUMBER : "))
            bill_amt=float(input("ENTER BILL AMOUNT : "))
            print("\n\tYOUR BILL FOR C/A NO. ",ca_no, " AMOUNTING Rs ",bill_amt," IS SUCCESSFULLY PAID !! \n")
            print("YOUR TRANSACTION  ID IS : ",TID)
            print("\n\tTHANK YOU FOR US.....\n")

        elif ch3==3:
            print("\n\n")
            print("ENTER YOUR DETAILS FOR PAYING GAS BILL --- \n\n")
            provider = input("ENTER YOUR GAS PROVIDER NAME : ")
            ca_no = int(input("ENTER YOUR CONSUMER ACC. NUMBER : "))
            bill_amt=float(input("ENTER BILL AMOUNT : "))
            print("\n\tYOUR BILL FOR C/A NO. ",ca_no, " AMOUNTING Rs ",bill_amt," IS SUCCESSFULLY PAID !! \n")
            print("YOUR TRANSACTION  ID IS : ",TID)
            print("\n\tTHANK YOU FOR US.....\n")
        elif ch3==4:
            exit()
        else:
            print("\n\nPLEASE ENTER A VALID CHOICE BETWEEN 1 TO 4 !\n\nTRY AGAIN WITH VALID CHOICE ...")
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        elif choice == 4:
            print("\n\n")
            print("\tWELCOME TO INCOME TAX  ZONE ...\n")
            print("1. PAY YOUR INCOME TAX .")
            print("2. EXIT .")
            ch4 = int(input("\nENTER YOUR CHOICE : "))

            if ch4 == 1:
                print("\n\n")
                print("ENTER YOUR DETAILS FOR INCOME TAX  PAYMENT \n\n")
                ac_no = int(input("ENTER YOUR ACCOUNT NUMBER : "))
                pan_no = input("ENTER YOUR  PAN NUMBER : ")
                tax_amt=int(input("ENTER TAX  AMOUNT TO PAY : "))
                print("THANK YOU FOR PAYING INCOME TAX ....")
                print("\n\tYOUR TAX FOR PAN NO -  ",pan_no,"AMOUNT TO Rs ",tax_amt," IS SUCCESSFULLY PAID !! \n")
                print("YOUR TRANSACTION  ID IS : ",TID)
                print("\nTHANK YOU FOR USING OUR SERVICE.....\n")

            elif ch4==2:
                exit()
            else:
                print("\n\nPLEASE ENTER A VALID CHOICE BETWEEN 1 TO 2 !\n\nTRY AGAIN WITH VALID CHOICE ...")




        elif choice == 5:
            print("\n\n")
            print("\tWELCOME TO PAY INSURANCE PREMIUM  ZONE ...\n")
            print("1. PAY INSURANCE PREMIUM .")
            print("2. EXIT .")

            ch5 = int(input("\nENTER YOUR CHOICE : "))
            if ch5 == 1:
                print("\n\n")
                print("ENTER YOUR DETAILS FOR PAYING YOUR INSURANCE PREMIUM \n\n")
                premium_name = input("ENTER YOUR PREMIUM NAME : ")
                premium_no = int(input("ENTER YOUR  PREMIUM NUMBER : ") )
                premium_amt=int(input("ENTER PREMIUM AMOUNT TO PAY : "))
                print("\n\tYOUR PREMIUM FOR PREMIUM NO. -  ",premium_no,"AMOUNTING  Rs ",premium_amt," IS SUCCESSFULLY
PAID !! \n")
                print("YOUR TRANSACTION  ID IS : ",TID)
                print("\nTHANK YOU FOR USING OUR SERVICE.....\n")

            elif ch5==2:
                exit()
            else:
                print("\n\nPLEASE ENTER A VALID CHOICE BETWEEN 1 TO 2 !\n\nTRY AGAIN WITH VALID CHOICE ...")




        elif choice == 6:
            print("\n\n")
            print("\tWELCOME TO LOAN'S  ZONE ...\n")
            print("1. APPLY FOR LOAN .")
            print("2. EXIT .")

            ch6 = int(input("\nENTER YOUR CHOICE : "))
            if ch6 == 1:
                print("\n\n")
                print("ENTER YOUR DETAILS FOR LOAN APPLY \n\n")
                ac_no = int(input("ENTER YOUR ACCOUNT NUMBER WITH US: "))
                pan_no = input("ENTER YOUR PAN NO. : ")
                amount=int(input("ENTER AMOUNT FOR LOAN : "))
                print("\n\tTHANKS FOR APPLYING FOR LOAN \n")
                print("KINDLY UPLOAD & VERIFY THE REQUIRED DOCUMENT ON LINK SHARED WITH YOUR CONTACT NO. ")
                print("YOUR REFERENCE  NO. IS : ",FN)
                print("\nWE WILL CREDIT Rs ",amount," IN YOUR A/C NO. - ",ac_no," WITHIN 48 HOURS , ONCE YOUR DOCUMENT
GETS VERIFIED !!")


            elif ch6==2:
                exit()
            else:
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                print("\n\nPLEASE ENTER A VALID CHOICE BETWEEN 1 TO 2 !\n\nTRY AGAIN WITH VALID CHOICE ...")




        elif choice == 7:
            exit()

        else:
            print("\n\n\tPLEASE ENTER A VALID CHOICE BETWEEN 1 TO 7 !\n\nTRY AGAIN WITH VALID CHOICE ...\n\n")




else:
    print("\n\tWRONG PIN CODE !\t\n\n\tTRY AGAIN WITH VALID PIN CODE \t")
```

OUTPUT

```
        SWIPE YOUR CARD
ENTER YOUR PIN CODE : 1234




1. BANKING .
2. OPEN / WITHDRAW FIXED DEPOSIT .
3. PAY UTILITY BILLS .
4. PAY INCOME TAX .
5. PAY INSURANCE PREMIUM .
6. APPLY FOR PERSONAL LOANS .
7. EXIT .
ENTER YOUR CHOICE : 1




        WELCOME TO BANKING  ZONE ...

1. WITHDRAW CASH .
2. DEPOSIT CASH / CHEQUE .
3. TRANSFER MONEY .
4. BALANCE ENQUIRY .
5. PIN CHANGE .
6. EXIT .




ENTER YOUR CHOICE : 1

ENTER AMOUNT TO WITHDRAW : 7000


TRANSACTION IS SUCCESSFUL
COLLECT YOUR RS  7000  CASH BEFORE LEAVING ATM
YOUR TRANSACTION ID IS :  332003804
ACCOUNT BALANCE :  93000
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```
1. BANKING .
2. OPEN / WITHDRAW FIXED DEPOSIT .
3. PAY UTILITY BILLS .
4. PAY INCOME TAX .
5. PAY INSURANCE PREMIUM .
6. APPLY FOR PERSONAL LOANS .
7. EXIT .
ENTER YOUR CHOICE : 3


      WELCOME  TO UTILITY BILL   ZONE ...

1. RECHARGE / PAY MOBILE BILL .
2. PAY ELECTRIC BILL .
3. PAY GAS BILL .
4. EXIT .
ENTER YOUR CHOICE : 2




ENTER YOUR DETAILS FOR PAYING ELECTRIC BILL ---


ENTER YOUR ELECTRIC PROVIDER NAME : NBPDCL
ENTER YOUR CONSUMER ACC. NUMBER : 1234645
ENTER BILL AMOUNT : 2000

      YOUR BILL FOR C/A NO.  1234645  AMOUNTING Rs  2000.0  IS SUCCESSFULLY
PAID !!

YOUR TRANSACTION  ID IS :  332003804

      THANK YOU FOR US.....




1. BANKING .
2. OPEN / WITHDRAW FIXED DEPOSIT .
3. PAY UTILITY BILLS .
4. PAY INCOME TAX .
5. PAY INSURANCE PREMIUM .
6. APPLY FOR PERSONAL LOANS .
7. EXIT .
```

ENTER YOUR CHOICE : 4

        WELCOME TO INCOME TAX   ZONE ...

1. PAY YOUR INCOME TAX .
2. EXIT .

ENTER YOUR CHOICE : 1

ENTER YOUR DETAILS FOR INCOME TAX   PAYMENT

ENTER YOUR ACCOUNT NUMBER : 20424637249
ENTER YOUR PAN NUMBER : KMTPK9080D
ENTER TAX AMOUNT TO PAY : 20000
THANK YOU FOR PAYING INCOME TAX ....

        YOUR TAX FOR PAN NO -   KMTPK9080D AMOUNT TO Rs 20000 IS SUCCESSFULLY
PAID !!

YOUR TRANSACTION ID IS : 332003804

THANK YOU FOR USING OUR SERVICE.....

1. BANKING .
2. OPEN / WITHDRAW FIXED DEPOSIT .
3. PAY UTILITY BILLS .
4. PAY INCOME TAX .
5. PAY INSURANCE PREMIUM .
6. APPLY FOR PERSONAL LOANS .
7. EXIT .
ENTER YOUR CHOICE : 5

        WELCOME TO PAY INSURANCE PREMIUM ZONE ...

1. PAY INSURANCE PREMIUM .
2. EXIT .

ENTER YOUR CHOICE : 1

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ENTER YOUR DETAILS FOR PAYING YOUR INSURANCE PREMIUM


ENTER YOUR PREMIUM NAME : LIC
ENTER YOUR  PREMIUM NUMBER : 129590
ENTER PREMIUM AMOUNT TO PAY : 12000

      YOUR PREMIUM FOR PREMIUM NO. -   129590 AMOUNTING  Rs  12000  IS
SUCCESSFULLY PAID !!

YOUR TRANSACTION  ID IS :  332003804

THANK YOU FOR USING OUR SERVICE.....



1. BANKING .
2. OPEN / WITHDRAW FIXED DEPOSIT .
3. PAY UTILITY BILLS .
4. PAY INCOME TAX .
5. PAY INSURANCE PREMIUM .
6. APPLY FOR PERSONAL LOANS .
7. EXIT .
ENTER YOUR CHOICE : 6



      WELCOME TO LOAN'S  ZONE ...

1. APPLY FOR LOAN .
2. EXIT .

ENTER YOUR CHOICE : 1



ENTER YOUR DETAILS FOR LOAN APPLY


ENTER YOUR ACCOUNT NUMBER WITH US: 2042436080
ENTER YOUR PAN NO. : HPKYTIH657H
ENTER AMOUNT FOR LOAN : 120000

      THANKS FOR APPLYING FOR LOAN
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KINDLY UPLOAD & VERIFY THE REQUIRED DOCUMENT ON LINK SHARED WITH YOUR CONTACT
NO.
YOUR REFERENCE NO. IS : 985973

WE WILL CREDIT Rs 120000 IN YOUR A/C NO. - 2042436080 WITHIN 48 HOURS ,
ONCE YOUR DOCUMENT GETS VERIFIED !!

1. BANKING .
2. OPEN / WITHDRAW FIXED DEPOSIT .
3. PAY UTILITY BILLS .
4. PAY INCOME TAX .
5. PAY INSURANCE PREMIUM .
6. APPLY FOR PERSONAL LOANS .
7. EXIT .
ENTER YOUR CHOICE : 2

        WELCOME TO FIXED DEPOSIT ZONE ...

1. OPEN A NEW FIXED DEPOSIT .
2. WITHDRAW EXISTING FIXED DEPOSIT .
3. VIEW YOUR FIXED DEPOSIT DETAILS .
3. EXIT .

ENTER YOUR CHOICE : 1

YOU ARE WELCOME HERE TO OPEN A NEW FIXED DEPOSIT

PLEASE READ CAREFULLY AND FILL OUT THE DETAILS CORRECTLY

WE ACCEPT ONE OF THESE DOCUMENT AS KYC / ADDRESS PROOF .IT MUST BE IN YOUR
NAME .

  ADHAAR CARD | PAN CARD | PASSPORT | VOTER ID | DRIVING
LICENCE | GOVT. ID CARD
ENTER YOUR KYC DOCUMENT NAME : PAN CARD
ENTER YOUR KYC DOCUMENT NUMBER : HGINP868G

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ENTER YOUR NAME : NAVIN KUMAR
ENTER YOUR DATE OF BIRTH (dd-mm-yyyy): 09-09-2000
ENTER A FIXED DEPOSIT AMOUNT : 23000
FOR HOW LONG , YOU WANT TO FIX YOUR  FD : 5
CONGRATULATIONS !!,  YOU HAVE SUCCESSFULLY CREATED YOUR FD WITH AMOUNT OF RS
23000 WITH US .
YOUR FD  FOLIO NUMBER IS :  985973


THANK YOU FOR SHOWING TRUST IN US .




1. BANKING .
2. OPEN / WITHDRAW FIXED DEPOSIT .
3. PAY UTILITY BILLS .
4. PAY INCOME TAX .
5. PAY INSURANCE PREMIUM .
6. APPLY FOR PERSONAL LOANS .
7. EXIT .
ENTER YOUR CHOICE : 7


1. BANKING .
2. OPEN / WITHDRAW FIXED DEPOSIT .
3. PAY UTILITY BILLS .
4. PAY INCOME TAX .
5. PAY INSURANCE PREMIUM .
6. APPLY FOR PERSONAL LOANS .
7. EXIT .
```