AIR FORCE GOLDEN JUBILEE INSTITUTE

PROJECT REPORT ON

BANK MANAGEMENT SYSTEM

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XII-A

ACKNOWLEDGEMENT

I take this opportunity to express deep gratitude and sincere thanks to my Computer Science teacher Mrs. Mohini Arora who guided me to complete this project successfully. I would like to thank her for her valuable guidance and constant encouragement, constructive attitude and immense motivation which has sustained my effort at all stages of this project work.

Last but not the least I extend my sincere thanks to the computer lab assistant Mr. Surender Singh for helping me towards the successful completion of this project.

Vishal Bhardwaj
Class XII-A
Date:

CERTIFICATE

This is to certify that the Computer Science project on Bank Management System has been submitted by Vishal Bhardwaj, Roll number_____ of class XII A. This will be assessed during practical examination conducted by the Central Board of Secondary Education (CBSE) in the academic year 2021 –22.

Date:

Mrs. Mohini Arora
HOD Computer Science
Air Force Golden Jubilee Institute

INTRODUCTION TO THE PROJECT

Banking services are the nerves of any country's economy. Each of us uses them in one way or other. During the pandemic , Banks were one of the essential sectors that continued to provide their services for public welfare and supported the economy to pass through the worst phase of this century.

On-line facility to customers from account opening to doing transaction from the comfort of their home is certainly a big relief to them.

In my project on "Bank Management System", I have tried to incorporate the basic features of banking.

SALIENT FEATURES:

- PERMANENT STORAGE
  Data is stored in the MySQL Database linked with the program.

- PASSWORD PROTECTION
  Admin account is password protected that can be accessed by Bank officials only.

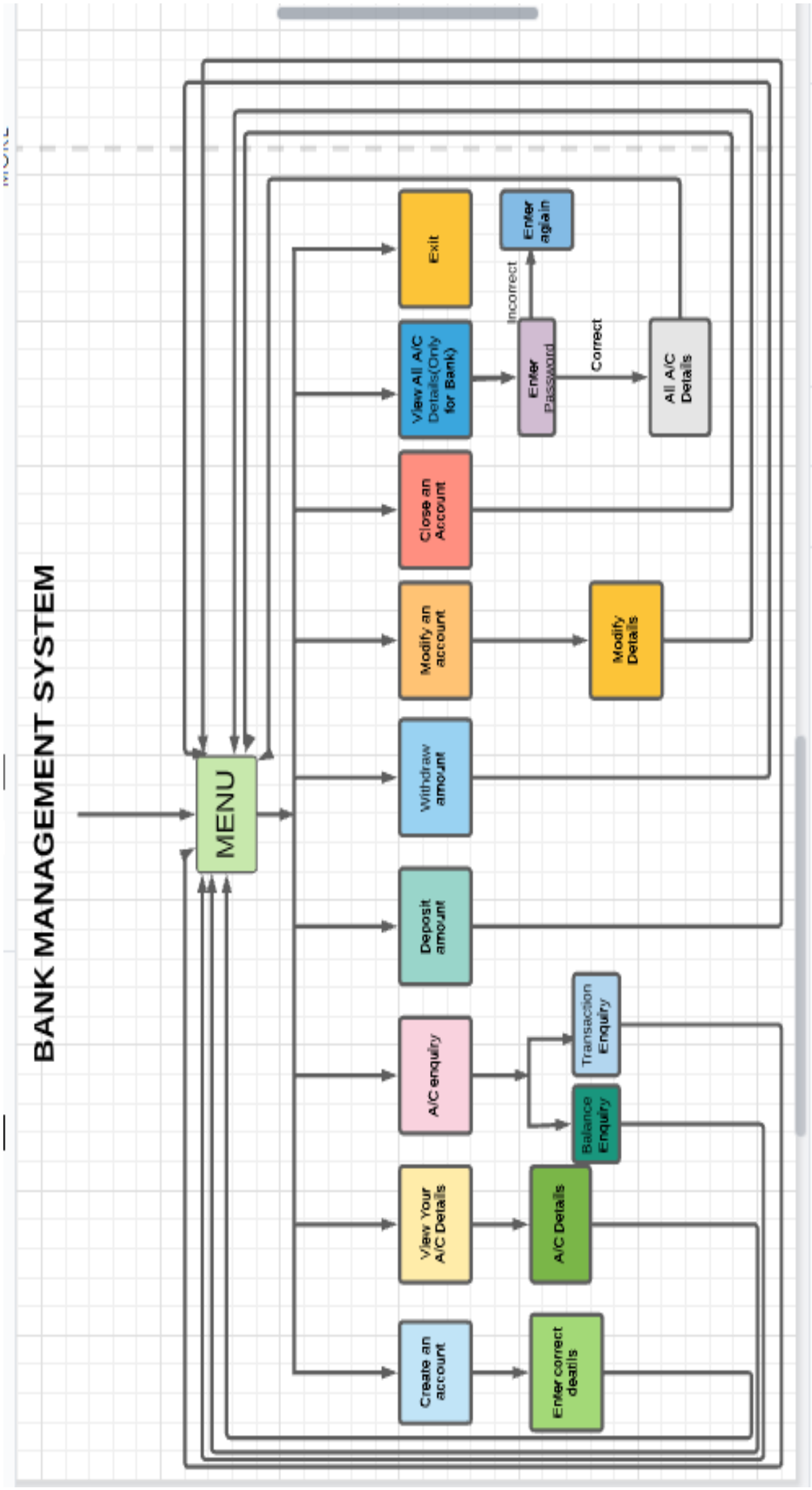
- USER-FRIENDLY FORMAT
  Various information is provided in user friendly format like Tables, spaced paragraphs, etc.

- DISPLAY
  Two types of display ,i.e. Selective and Complete Display help the customer to easily access data.

- MODIFICATION
  A/C details can be easily modified using A/C Number.

- DELETION
  Customers can close their account using A/C Number
  if they have no money saved in their A/C.

PROJECT MAP


BANK MANAGEMENT SYSTEM
MENU
Create an account
Enter correct deatils
View Your A/C Details
A/C Details
A/C enquiry
Balance Enquiry
Transaction Enquiry
Deposit amount
Withdraw amount
Modify an account
Modify Details
Close an Account
View All A/C Details(Only for Bank)
Enter Password
Incorrect
Enter again
Correct
All A/C Details
Exit

Hardware / Software Requirements

Minimum Requirements:

- Windows 7 and Above
- Intel core i3 or AMD Ryzen 5 and above
- Python version 3.9.1 and above
- MySQL Version 8.0 with python connectivity
- 256 GB of storage (preferable)
- RAM: 2 GB (Minimum)

LIST OF VARIOUS MODULES AND THEIR BUILTIN FUNCTIONS USED

i. **append(element):** It is used to add a single item to the existing list.

ii. **mysql.connector:** It provide python connectivity to the MySQL databases.

a) connect(): The connect() function of mysql.connector establishes connection to a MySQL database and takes four parameters:

<connection-object>=mysql.connector.connect (**host**=<host-name>,**user**=<user- name>, **passwd**=<password>,**database**=<database>)

iii. **Cursor object:** It is a special control structure that helps in the processing of data row by row.

iv. **execute()**: It is used to execute SQL queries with cursor object.

<cursorobject>.execute(<sql query>)

v. **fetch():** It is used to extract the dataset from the results stored in cursorobject .

a)<data>=<cursor>.fetchall()

vi. **commit():** It is used to make the changes made to database through queries permanent.

vii. **Datetime Module:** The datetime module deals with manipulating dates and times. In our program, it helps us organize time slots in a special data type and generate further time slots automatically.

a) datetime.now(): Returns the current local date and time.

viii. **Random Module:** It is used to generate a random value.

a) random.random(): random floating point number between 0 and 1.

b) random.randrange(x,y): Random integers between x and y.

SOURCE CODE

```
#Vishal Bhardwaj Project 2nd Term

import mysql.connector as mysqlt #1st diference in module
import datetime
from prettytable import PrettyTable
mycon=mysqlt.connect(host="localhost",user="root",passwd
="Vp#12345")
cursor=mycon.cursor()
cursor.execute("Use Bank")
print()
print()
print("**************************************
BANK MANAGEMENT SYSTEM
**************************************************
*****")
print()
print("_____
_____
_____")
print()
print()
print("                                Welcome !!!")
def mainmenu():

    print()
    print("                          Main Menu")
    print()

    print("          1. Create an account\n",
        "          2. View Your A/C Details\n",
        "          3. A/C enquiry\n",
        "          4. Deposit amount\n",
        "          5. Withdraw amount\n",
        "          6. Modify an account\n",
        "          7. Close an Account\n",
        "          8. View All A/C Details(Only for Bank)\n",
        "          9. Exit")
    print()
    print()
```

```
def create():
   print("**********************  Account Creation
**********************")
   print()
   print(" Please fill the details carefully    ")
   print()

   L1=["Customer ID","Account
Number","Name","Balance","Age","Father's Name","Mother's
Name","Gender","Mobile Number",
       "Address","Type of Account","Educational
Qualification","Occupation","Income","Email ID"]

   #C1=csv.writer(f,delimiter=",")
   #C1.writerow(L1)
   while True:

      try:
         namef=input("Enter First Name:  ")
         print()
      except ValueError:
         print("Wrong input. Please enter again! ")
         print()
         continue
      except TypeError:
         print("Wrong input. Please enter again! ")
         print()
         continue
      except EOFError:
         pass
      try:
         namem=input("Enter Middle Name(Optional,Press
Enter if N/A ):  ")
         print()
         namel=input("Enter Last Name:  ")
         print()
      except ValueError:
         print("Wrong input. Please enter again! ")
         print()
         continue
      except TypeError:
         print("Wrong input. Please enter again! ")
```

```
XJK
 print()
            continue
        except EOFError:
            pass
        if namem!="":
            name=namef+" "+namem+" "+namel
        elif namem=="":
            name=namef+" "+namel
        while True:
            try:
                age=int(input("Enter Age:  "))
                print()


            except ValueError:
                print("Wrong input. Please enter again! ")
                print()
                continue
            except TypeError:
                print("Wrong input. Please enter again! ")
                print()
                continue
            except EOFError:
                pass
            else:
                break
        gender=input("Gender(M/F):  ")
        print()
        Fname=input("Enter Father's Name:  ")
        print()
        Mname=input("Enter Mother's Name:  ")
        print()

        while True:
            mno=input("Enter mobile number:   ")
            if len(mno)!=10:
                print("Please enter valid mobile number!")
                print()
                continue
            else:
                break
```

```
        print()
        address=input("Enter Residential Address: ")
        print()
        print()
        print("                Choose Type of Account")
        print(" 1. Saving\n","2. Term Deposit\n","3. Current")
        print()
        while True:
            try:
                ch=int(input("  (1/2/3):  "))
                print()
                if ch==1 or ch==2:
                    print(" Enter any one of these ID proofs ")
                    print()
                    print(" 1.Aadhar No.\n","2.Passport
No.\n","3.Driving License No.\n","4.Election Card No.\n"
                          ,"5.NREGA Card No.")
                    print()
                    while True:
                        try:
                            ch2=int(input("(1/2/3/4/5):  "))
                            print()
                            if ch2==1:
                                adno=input("Enter Aadhar No: ")
                                print()
                            elif ch2==2:
                                passno=input("Enter Passport No.: ")
                                print()
                            elif ch2==3:
                                dno=input("Enter Driving License No.: ")
                                print()
                            elif ch2==4:
                                eno=input("Enter Election Card No.: ")
                                print()
                            elif ch2==5:
                                nno=input("Enter NREGA Card No.: ")
                                print()
                            else:
                                print("Please Enter valid Choice!")
                                print()
                                continue
```

```
except ValueError:
                    print("Wrong input. Please enter again! ")
                    print()
                    continue
                except TypeError:
                    print("Wrong input. Please enter again! ")
                    print()
                    continue
                except EOFError:
                    pass
                else:
                    break
            elif ch==3:
                gstno=int(input("Enter GST Registration
Number"))
                print()
                PAN=int(input("Enter PAN of Firm: "))
                print()
            else:
                print("Please enter valid choice!")
                print()
                continue
            if ch==1:
                typeacc="Saving"
            elif ch==2:
                typeacc="Term Deposit"
            elif ch==3:
                typeacc="Current"

        except ValueError:
            print(" Please enter  valid choice! ")
            print()
            continue
        except TypeError:
            print(" Please enter valid choice! ")
            print()
            continue
        except EOFError:
            pass
        else:
            break
    print(" Educational Qualification")
```

```
print()
      print(" 1. Illiterate\n","2. Metric\n","3.
Intermediate\n","4. Graduate\n","5. Post Graduate\n",
          "6. Profession(CA/MBA/Engineer)")
      print()
      while True:

         try:


            ch3=int(input("(1/2/3/4/5/6):  "))
            print()
            if ch3==1:

               EQ="Illiterate"
               print("Please Visit Branch for A/C opening!")
               print()
            elif ch3==2:
               EQ="Metric"
            elif ch3==3:
               EQ="Intermediate"
            elif ch3==4:
               EQ="Graduate"
            elif ch3==5:
               EQ="Post Graduate"
            elif ch3==6:
               EQ="Profession"
            else:
               print("Please Enter valid Choice!")
               print()
               continue


         except ValueError:
            print("Wrong input. Please enter again! ")
            print()
            continue
         except TypeError:
            print("Wrong input. Please enter again! ")
            print()
            continue
         except EOFError:
            pass
```

```
else:
            break
        if ch3==1:
            break
        print("     Occupation")
        print()
        print(" 1. Student\n","2. Housewife\n","3. Central
Government\n","4. State Government\n","5. PSUs\n",
              "6. Private Companies\n","7. Others")
        print()
        while True:

            try:


                ch4=int(input(" (1/2/3/4/5/6/7):  "))
                print()
                if ch4==1:

                    Occ="Student"
                elif ch4==2:
                    Occ="Housewife"
                elif ch4==3:
                    Occ="Central Government"
                elif ch4==4:
                    Occ="State Government"
                elif ch4==5:
                    Occ="PSUs"
                elif ch4==6:
                    Occ="Private Companies"
                elif ch4==7:
                    Occ="Others"
                else:
                    print("Please Enter valid Choice!")
                    print()
                    continue


            except ValueError:
                print("Wrong input. Please enter again! ")
                print()
                continue
            except TypeError:
```

```
print("Wrong input. Please enter again! ")
            print()
            continue
        except EOFError:
            pass
        else:
            break
    print(" Income(in Rs.)")
    print()
    print(" 1. 0-100000\n","2. 100000-500000\n","3. Above 5
Lakhs")
    print()
    while True:
        try:
            ch5=int(input(" (1/2/3): "))
            print()
            if ch5==1:
                inc="0-100000"
            elif ch5==2:
                inc="100000-500000"
            elif ch5==3:
                inc="Above 5 Lakhs"
            else:
                print("Please Enter valid Choice!")
                print()
                continue

        except ValueError:
            print("Wrong input. Please enter again! ")
            print()
            continue
        except TypeError:
            print("Wrong input. Please enter again! ")
            print()
            continue
        except EOFError:
            pass
        else:
            break
    Email=input("Enter Email Id: ")
    print()
    import random
```

```
import string#to genrate random letters
        account=random.randint(1702009328,9838709939)
        #l=len(str(ano))-2

        #print(ano)
        #account=ano*(10)**l
        #account=str(int(account))
        #print(account)
        var1=random.choice(string.ascii_letters)
        var2=random.choice(string.ascii_letters)
        var3=random.choice(string.ascii_letters)
        var4=random.choice(string.ascii_letters)
        var5=var1+var2+var3+var4
        num=random.randrange(12345678,98969709)
        Cust_Id=var5.upper()+str(num)
        #print(Cust_Id)

        Bal=0



#L=[Cust_Id,account,name,Bal,age,gender,Fname,Mname,mno
,address,typeacc,EQ,Occ,inc,Email]
        st="INSERT INTO Account
(Customer_ID,A_C_No,Name,Balance,Age,Gender,Father_Nam
e,Mother_Name,M_No,Address,Type_of_A_C,Education,Occu
pation,Income,Email_ID)
VALUES('{}',{},'{}',{},{},'{}','{}','{}','{}','{}','{}','{}','{}','{}','{}')".format
(Cust_Id,account,name,Bal,age,gender,Fname,Mname,mno,ad
dress,typeacc,EQ,Occ,inc,Email)
        cursor.execute(st)
        mycon.commit()

        #print(L)
        #C1.writerow(L)
        print()
        print()
        print("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~   YOUR
ACCOUNT HAS BEEN SUCCESSFULLY CREATED
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~  ")
        print()
        print("  YOUR CUSTOMER ID :  ",Cust_Id)
```

```
 print()
        print("  YOUR ACCOUNT NUMBER:  ",account)
        print()
        break

def Benquiry():
    print(" ****************** Balance
**********************")

    print()
    cursor.execute("select * from account")
    data=cursor.fetchall()# a list containing all records as
elements



    while True:
        a_c=int(input(" Enter A/C number:  "))
        print()
        a=0
        Bal=0
        for x in data:
            if x[1]==a_c:
                Bal=x[3]

                print()

                a=1
        if a==0:
            print(" A/C Not Found")
            print()
            break
        elif a==1:

            print()
            print()
            print("                        Your Balance is:  ",Bal)
            break

def Tenquiry():
    print(" ****************** Transaction Details
**********************")
```

```
 print()
   cursor.execute("select * from account")
   data=cursor.fetchall()
   cursor.execute("select * from transaction")
   ndata=cursor.fetchall()


   while True:
      a_c=int(input(" Enter A/C number:  "))
      print()
      a=0
      Bal=0
      for x in data:
         if x[1]==a_c:
            Bal=x[3]

            print()

            a=1
            break
      if a==0:
         print(" A/C Not Found")
         print()
         print(" Enter correct A/C Number")
         print()
         continue
      elif a==1:
         print("----------------------Transaction details-----------
-------------------")
         print()
         print("           A/C Number:  ",a_c)
         print()
         for x in ndata:
            if x[0]==a_c and x[1]=='deposit':

               print()
               my=PrettyTable([" Amount Deposited","On"])
               for y in x:
                  pd=x[3]
                  timed=pd[:10]
                  my.add_row([x[2],timed])
                  break
```

```
 print(my)
                print()
          for x in ndata:
             if x[0]==a_c and x[1]=='withdraw':
                my1=PrettyTable([" Amount
Withdrawn","On"])
                for y in x:
                   pw=x[3]
                   timew=pw[:10]
                   my1.add_row([x[2],timew])
                   break
                print(my1)
                print()









                '''print(my)
                print()
                my1=PrettyTable([" Amount
Withdrawn","On","at"])
                for y in x:
                   pw=x[3]
                   timew=pw[:10]
                   my1.add_row([x[2],timew,x[3]])
                   break
                print(my1)
                print()'''


          print("   Your Balance is :  ",Bal)

          print()
          print()
          break
```

```
def Deposit():
    print(" ****************** Deposit
**********************")

    print()
    cursor.execute("select * from account")
    data=cursor.fetchall()

    l=[]
    Ldata=[] #new list containing every record as list
    for x in data:
        l=list(x)
        Ldata.append(l)



    while True:
        a_c=int(input(" Enter A/C number:  "))
        print()
        a=0
        for x in Ldata:
            if x[1]==a_c:
                x[3]=int(x[3])
                name=input(" Enter Your Name: ")
                print()
                amount=int(input(" Enter Amount To Be Deposited:
"))
                print()
                Bal=x[3]+amount
                x[3]=Bal
                Ldata[Ldata.index(x)]=x
                a=1
        if a==0:
            print(" A/C Not Found")
            print()
            print(" Enter correct A/C Number")
            print()
            continue
        elif a==1:
            print("             Amount Deposited")
```

```
 print()
          print()
          print("            Your Balance is:  ",Bal)
          break
    str2="UPDATE Account SET Balance={} where
A_C_No={}".format(Bal,a_c)
    cursor.execute(str2)
    mycon.commit()

    # using now() to get current time
    current_time = datetime.datetime.now()
    if a==1:


        str1="INSERT INTO Transaction (
A_C_No,Deposit_Withdrawn,Amount,Time)
VALUES({},'{}',{},'{}')".format(a_c,'deposit',amount,current
_time)
        cursor.execute(str1)
        mycon.commit()




def withdraw():
    print(" ****************** Withdraw
**********************")

    print()
    cursor.execute("select * from account")
    data=cursor.fetchall()
    l=[]
    Ldata=[] #new list containing every record as list
    for x in data:
        l=list(x)
        Ldata.append(l)
```

```
 while True:
      a_c=int(input(" Enter A/C number:  "))
      print()
      a=0
      for x in Ldata:
         if x[1]==a_c:
            name=input(" Enter Your Name: ")
            print()
            while True:
               amount=int(input(" Enter Amount To Be
Withdrawn:  "))
               x[3]=int(x[3])
               print()
               if x[3]==0:
                  print(" Balance: 0")
               if amount>=x[3]:

                  print("  Amount to be Withdrawn exceeds
Balance!!!" )
                  print()
                  print(" Withdraw less Amount")
                  ch4=input(" Do you wish to withdraw?(y/n): ")
                  if ch4.lower()=='y':
                     continue
                  else:
                     break
               elif amount<x[3]:

                  Bal=x[3]-amount
                  x[3]=Bal
                  Ldata[Ldata.index(x)]=x
                  a=1
                  break

      if a==0:
         print(" A/C Not Found")
         print()
         break
      elif a==1:
         print("         Amount Withdrawn")
         print()
         print()
```

```
 print("         Your Balance is:  ",Bal)
          break
   str2="UPDATE Account SET Balance={} where
A_C_No={}".format(Bal,a_c)
   cursor.execute(str2)
   mycon.commit()


   # using now() to get current time
   current_time = datetime.datetime.now()
   if a==1:


       str1="INSERT INTO Transaction (
A_C_No,Deposit_Withdrawn,Amount,Time)
VALUES({},'{}',{},'{}')".format(a_c,'withdraw',amount,current_
time)
       cursor.execute(str1)
       mycon.commit()

def menu_1():
   print("   Modify")
   print()
   print(" 1. Mobile Number\n","2. Educational
Qualification\n","3. Occupation\n","4. Income\n",
        "5. Address\n","6. Email ID")
def modify():
   print(" ****************** A/C Modification
************************")

   print()
   cursor.execute("select * from account")
   data=cursor.fetchall()


   while True:


       a_c=int(input(" Enter A/C Number: "))
       print()
       menu_1()
       ch=int(input(" Enter Choice to be Modified:(1-6) "))
```

```
 print()

#Customer_ID,A_C_No,Name,Balance,Age,Gender,Father_Nam
e,Mother_Name,M_No,Address,
      #Type_of_A_C,Education,Occupation,Income,Email_ID
      for x in data:
         if x[1]==a_c:
            a=1
            if ch==1:
               mobno=input(" Enter New 10-digit Mobile Number:
")
               print()
               str1="UPDATE ACCOUNT SET M_No='{}' WHERE
A_C_No={}".format(mobno,a_c)
               cursor.execute(str1)
               mycon.commit()

            elif ch==2:
               print(" New Educational Qualification")
               print()
               print(" 1. Illiterate\n","2. Metric\n","3.
Intermediate\n","4. Graduate\n","5. Post Graduate\n",
                        "6. Profession(CA/MBA/Engineer)")
               print()
               while True:

                  ch3=int(input("(1-6):  "))
                  print()
                  if ch3==1:
                     EQ="Illiterate"
                     break


                  elif ch3==2:
                     EQ="Metric"
                     break
                  elif ch3==3:
                     EQ="Intermediate"
                     break
                  elif ch3==4:
                     EQ="Graduate"
                     break
```

```
 elif ch3==5:
                    EQ="Post Graduate"
                    break
                elif ch3==6:
                    EQ="Profession"
                    break
                else:
                    print(" Please Enter valid Choice!")
                    print()
                    continue
              str1="UPDATE ACCOUNT SET Education='{}'
WHERE A_C_No={}".format(EQ,a_c)
              cursor.execute(str1)
              mycon.commit()
            elif ch==3:
              print(" New Occupation")
              print()
              print(" 1. Student\n","2. Housewife\n","3. Central
Government\n","4. State Government\n","5. PSUs\n",
                    "6. Private Companies\n","7. Others")
              print()
              while True:
                ch4=int(input(" (1/2/3/4/5/6/7):  "))
                print()
                if ch4==1:
                    Occ="Student"
                    break
                elif ch4==2:
                    Occ="Housewife"
                    break
                elif ch4==3:
                    Occ="Central Government"
                    break
                elif ch4==4:
                    Occ="State Government"
                    break
                elif ch4==5:
                    Occ="PSUs"
                    break
                elif ch4==6:
                    Occ="Private Companies"
                    break
```

```
 elif ch4==7:
                    Occ="Others"
                    break
                else:
                    print("Please Enter valid Choice!")
                    print()
                    continue
            str1="UPDATE ACCOUNT SET Occupation='{}'
WHERE A_C_No={}".format(Occ,a_c)
            cursor.execute(str1)
            mycon.commit()
        elif ch==4:
            print(" New Income(in Rs.)")
            print()
            print(" 1. 0-100000\n","2. 100000-500000\n","3.
Above 5 Lakhs")
            print()
            while True:
                ch5=int(input(" (1/2/3): "))
                print()
                if ch5==1:
                    inc="0-100000"
                    break
                elif ch5==2:
                    inc="100000-500000"
                    break
                elif ch5==3:
                    inc="Above 5 Lakhs"
                    break
                else:
                    print("Please Enter valid Choice!")
                    print()
                    continue


            str1="UPDATE ACCOUNT SET Income='{}' WHERE
A_C_No={}".format(inc,a_c)
            cursor.execute(str1)
            mycon.commit()
        elif ch==5:
            add=input(" Enter New Address: ")
break
```

```
 print()
                str1="UPDATE ACCOUNT SET address='{}' WHERE
A_C_No={}".format(add,a_c)
                cursor.execute(str1)
                mycon.commit()
            elif ch==6:
                Email=input(" Enter New Email-ID: ")
                print()
                str1="UPDATE ACCOUNT SET email_id='{}' WHERE
A_C_No={}".format(Email,a_c)
                cursor.execute(str1)
                mycon.commit()


        if a==0:
            print(" A/C Not Found")
            print()
            break
        elif a==1:



            print()
            print("    Account Modified Succesfully!")
            print()
            break


def view():
    print(" ****************** A/C Details
**********************")

    print()
    cursor.execute("select * from account")
    data=cursor.fetchall()



    L2=["Customer ID","Account
Number","Name","Balance","Age","Father's Name","Mother's
Name","Gender","Mobile Number",
        "Address","Type of Account","Educational
Qualification","Occupation","Income","Email ID"]
```

```
while True:
    a_c=int(input(" Enter A/C number:  "))
    print()
    a=0
    for x in data:
        if x[1]==a_c:
            print("  ",L2[0]," : ",x[0])
            print()
            print("  ",L2[1]," : ",x[1])
            print()
            print("  ",L2[2]," : ",x[2])
            print()
            print("  ",L2[3]," : ",x[3])
            print()
            print("  ",L2[4]," : ",x[4])
            print()
            print("  ",L2[5]," : ",x[5])
            print()
            print("  ",L2[6]," : ",x[6])
            print()
            print("  ",L2[7]," : ",x[7])
            print()
            print("  ",L2[8]," : ",x[8])
            print()
            print("  ",L2[9]," : ",x[9])
            print()
            print("  ",L2[10]," : ",x[10])
            print()
            print("  ",L2[11]," : ",x[11])
            print()
            print("  ",L2[12]," : ",x[12])
            print()
            print("  ",L2[13]," : ",x[13])
            print()
            print("  ",L2[14]," : ",x[14])
            print()
            a=1


    if a==0:
        print(" A/C Not Found")
        break
```

```
 elif a==1:
        break
def closee():
   print(" ****************** A/C Closing
**********************")

   print()
   cursor.execute("select * from account")
   data=cursor.fetchall()
   l=[]
   Ldata=[] #new list containing every record as list
   for x in data:
      l=list(x)
      Ldata.append(l)



   while True:


      a_c=int(input(" Enter A/C Number: "))
      print()
      a=0
      print()
      for x in Ldata:
         if x[1]==a_c:
            a=1
            x[3]=int(x[3])
            if x[3]!=0:
               print("     Alert!!!")
               print()
               print("  You have Rs.",x[3],"in Your Account")
               ch0=input(" Do You Still Want To Close Your account
(Y-Yes/ N-No): ")
               if ch0.lower()=='y':
                  str1="DELETE FROM ACCOUNT WHERE
A_C_No={}".format(a_c)
                  cursor.execute(str1)
                  mycon.commit()
                  a=2
                  break
               elif ch0.lower()=='n':
                  break
```

```
 elif x[3]==0:
                str1="DELETE FROM ACCOUNT WHERE
A_C_No={}".format(a_c)
                cursor.execute(str1)
                mycon.commit()
                a=2


        if a==0:
            print(" A/C Not Found")
            print()
            print(" Enter correct A/C Number")
            print()
            continue
        elif a==1:
            print(" Account not closed")
            ch1=input(" Do You Wish to Close an A/C (Y/N): ")
            if ch1.lower()=='y':

                continue
            else:
                break

        elif a==2:

            print()
            print("    Account Closed!")
            print()
            break


def Bank():
    print(" ****************** All Existing A/C Details
**********************")

    print()
    cursor.execute("select * from account")
    data=cursor.fetchall()



    L2=["Customer ID","Account
```

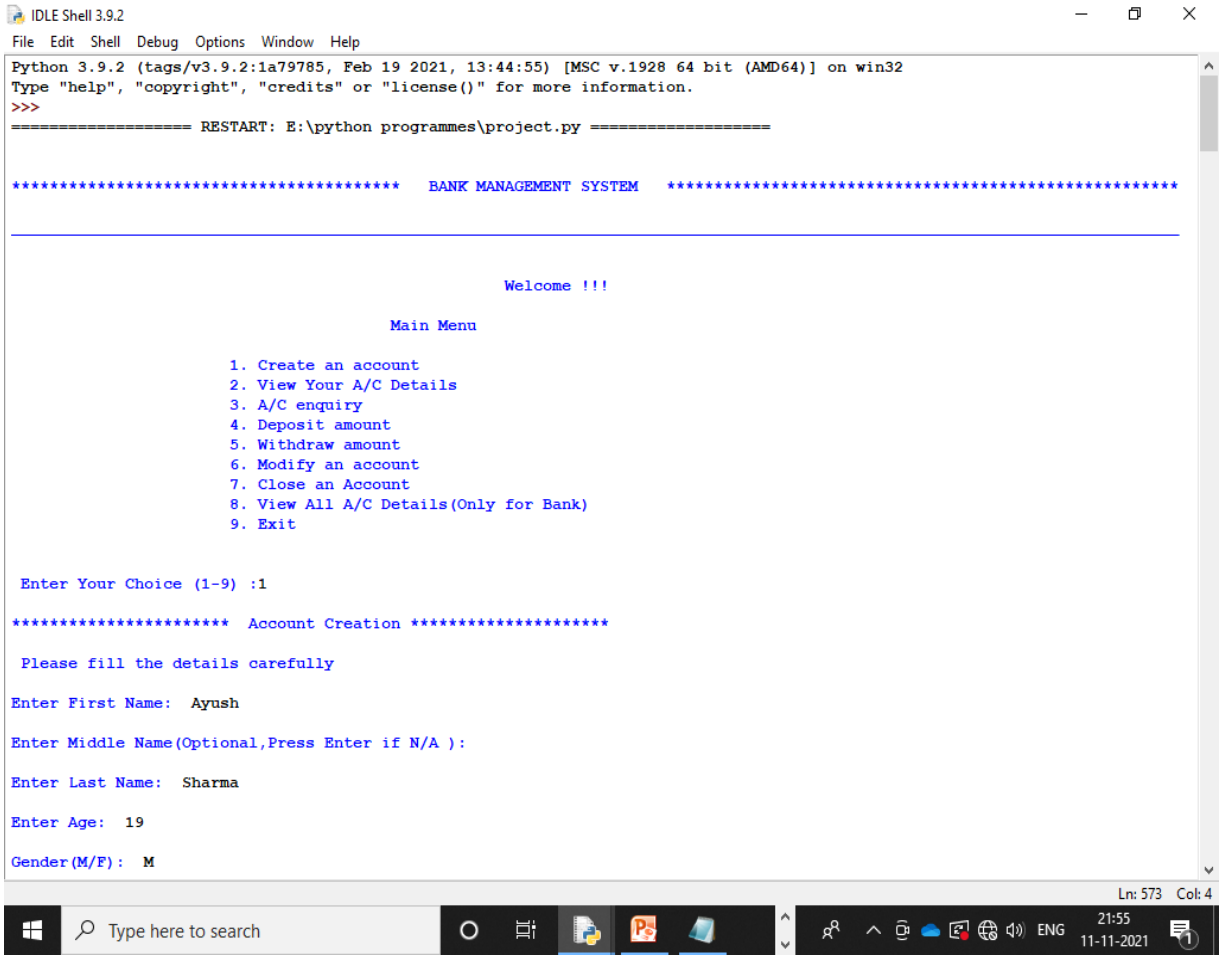
```
Number","Name","Balance","Age","Father's
Name","Mother's Name","Gender","Mobile Number",
      "Address","Type of Account","Educational
Qualification","Occupation","Income","Email ID"]

   count=1
   for x in data:

      print("--------",count,"-----------")
      print()
      print("  ",L2[0]," : ",x[0])
      print()
      print("  ",L2[1]," : ",x[1])
      print()
      print("  ",L2[2]," : ",x[2])
      print()
      print("  ",L2[3]," : ",x[3])
      print()
      print("  ",L2[4]," : ",x[4])
      print()
      print("  ",L2[5]," : ",x[5])
      print()
      print("  ",L2[6]," : ",x[6])
      print()
      print("  ",L2[7]," : ",x[7])
      print()
      print("  ",L2[8]," : ",x[8])
      print()
      print("  ",L2[9]," : ",x[9])
      print()
      print("  ",L2[10]," : ",x[10])
      print()
      print("  ",L2[11]," : ",x[11])
      print()
      print("  ",L2[12]," : ",x[12])
      print()
      print("  ",L2[13]," : ",x[13])
      print()
      print("  ",L2[14]," : ",x[14])
      print()
      count+=1
print("_____________________________________________________
```

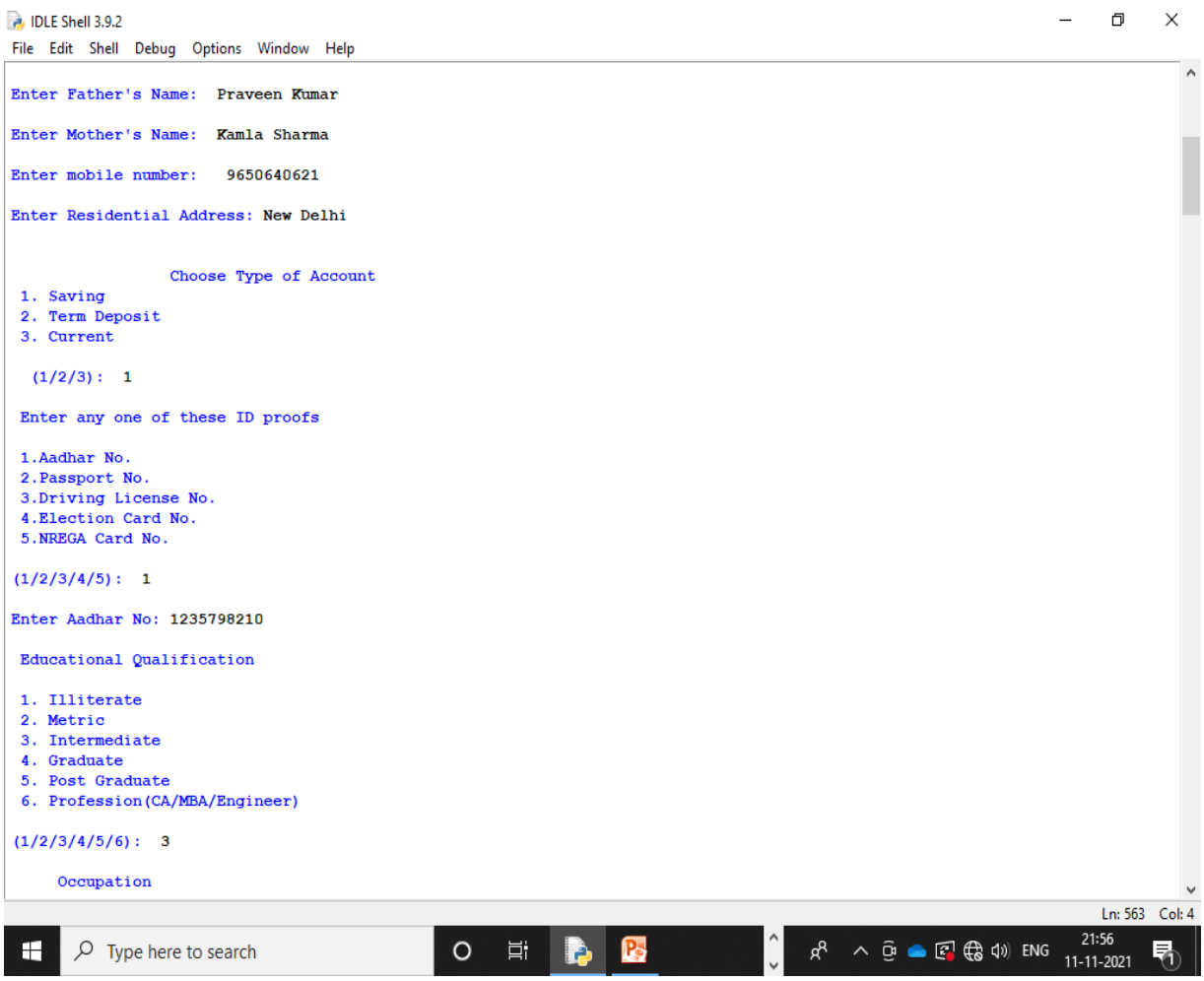
```
_____")
        print("-----------------------------------------------")

print("_____
_______")
        print()


'''
"  1. Create an account\n","2. View Your A/C Details\n","3.
A/C enquiry\n","4. Deposit amount\n",
          "5. Withdraw amount\n","6. Modify an account\n","7.
Close an Account\n",
          "8. View All A/C Details(Only for Bank)\n","9. Exit")'''

while True:
    mainmenu()
    ch=int(input(" Enter Your Choice (1-9) :"))
    print()
    if ch==1:
        create()
        print()
        ch1=input(" Do You Wish to Continue(Y/N): ")
        print()
        if ch1.lower()=='y':
            continue
        else:
            break
    elif ch==2:
        view()
        print()
        print()
        ch2=input(" Do You Wish to Continue(Y/N): ")
        print()
        if ch2.lower()=='y':
            continue
        else:
            break
    elif ch==3:
        print(" 1. Balance Enquiry\n","2. Transaction Details\n")
        ch3=int(input(" Choose from above options(1-2): "))
        print()
        if ch3==1:
```

```
Benquiry()
        print()

    elif ch3==2:
        Tenquiry()
        print()
    ch4=input(" Do You Wish to Continue(Y/N): ")
    print()
    if ch4.lower()=='y':

        continue

    else:
        break

  elif ch==4:
    Deposit()
    print()
    print()
    ch5=input(" Do You Wish to Continue(Y/N): ")
    print()
    if ch5.lower()=='y':
        continue
    else:
        break
  elif ch==5:
    withdraw()
    print()
    print()
    ch6=input(" Do You Wish to Continue(Y/N): ")
    print()
    if ch6.lower()=='y':
        continue
    else:
        break
  elif ch==6:
    modify()

    print()
    ch7=input(" Do You Wish to Continue(Y/N): ")
    print()
    if ch7.lower()=='y':
        continue
```

```
else:
        break
  elif ch==7:
     closee()
     print()
     print()
     ch8=input(" Do You Wish to Continue(Y/N): ")
     print()
     if ch8.lower()=='y':
        continue
     else:
        break
  elif ch==8:
     password='Bank123'
     while True:
        passw=input(" Enter password:")
        print()
        if passw==password:
           Bank()
           print()
           print()
           break
        else:
           print("  Invalid Password")
           print()
           ch9=input(" Do You Wish to Enter Again(Y/N): ")
           print()
           if ch9.lower()=='y':
              continue
           else:
              break
     ch10=input(" Do You Wish to Continue(Y/N): ")
     print()
     if ch10.lower()=='y':
        continue
     else:
        break



  elif ch==9:
     break
```

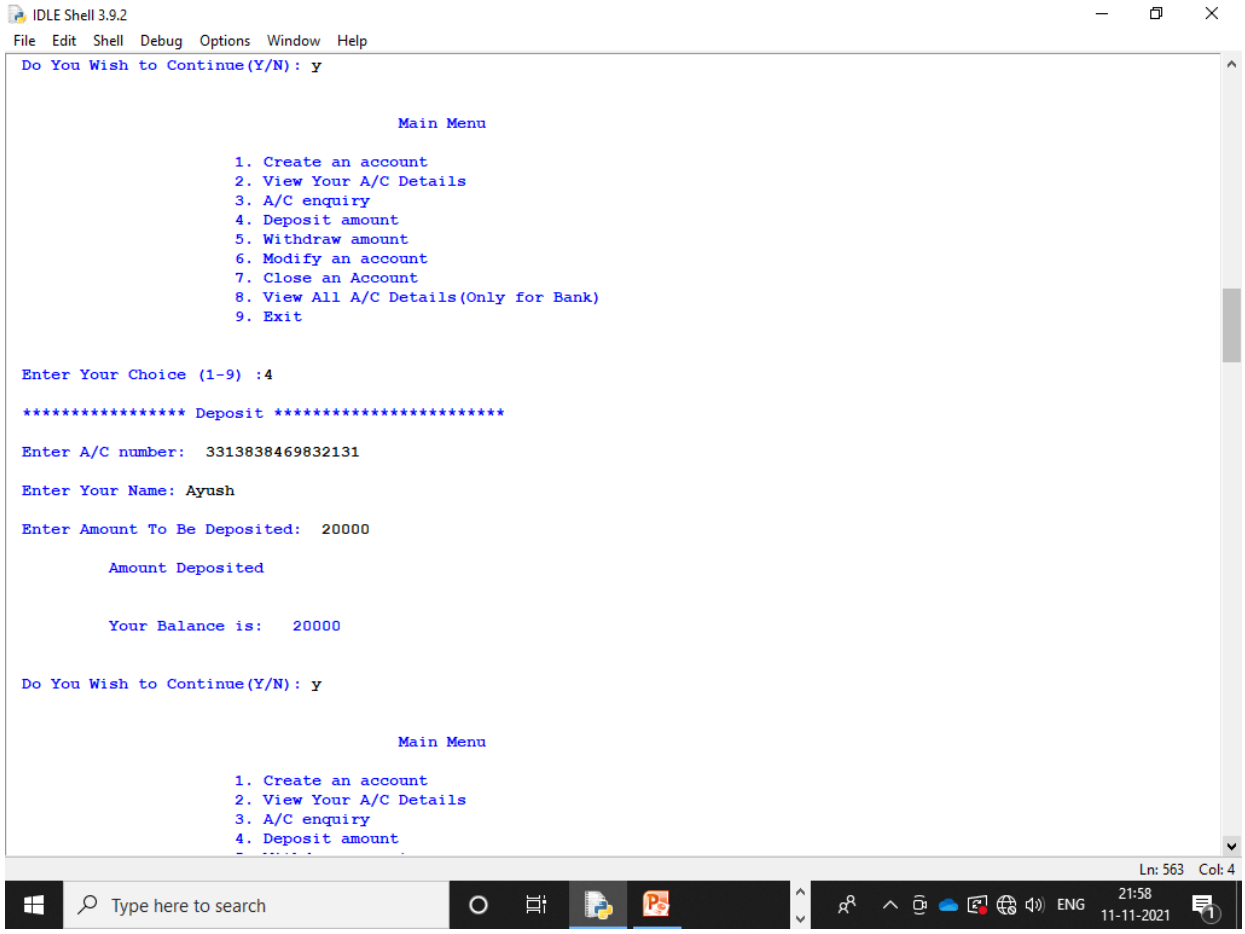
OUTPUT SCREENS

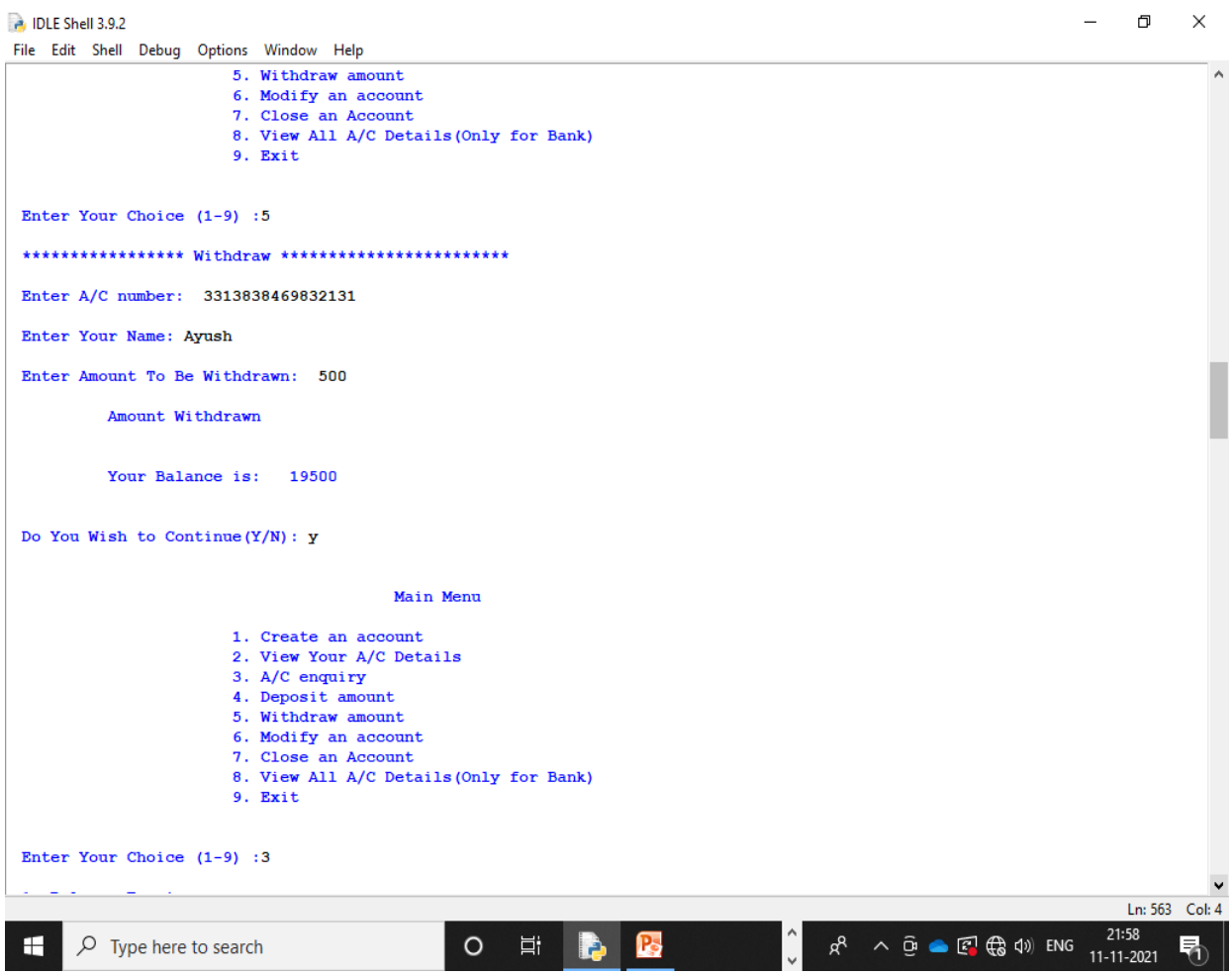


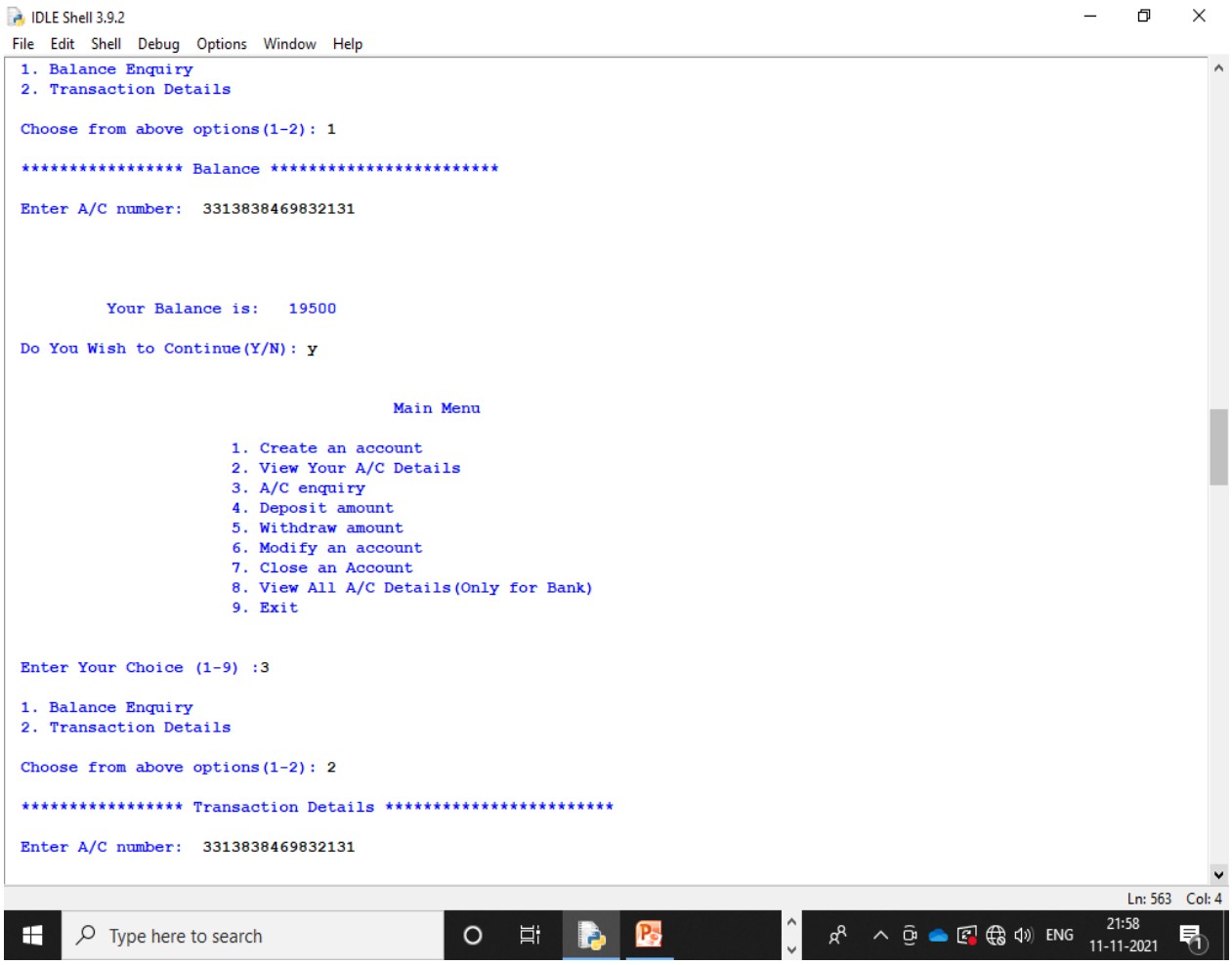


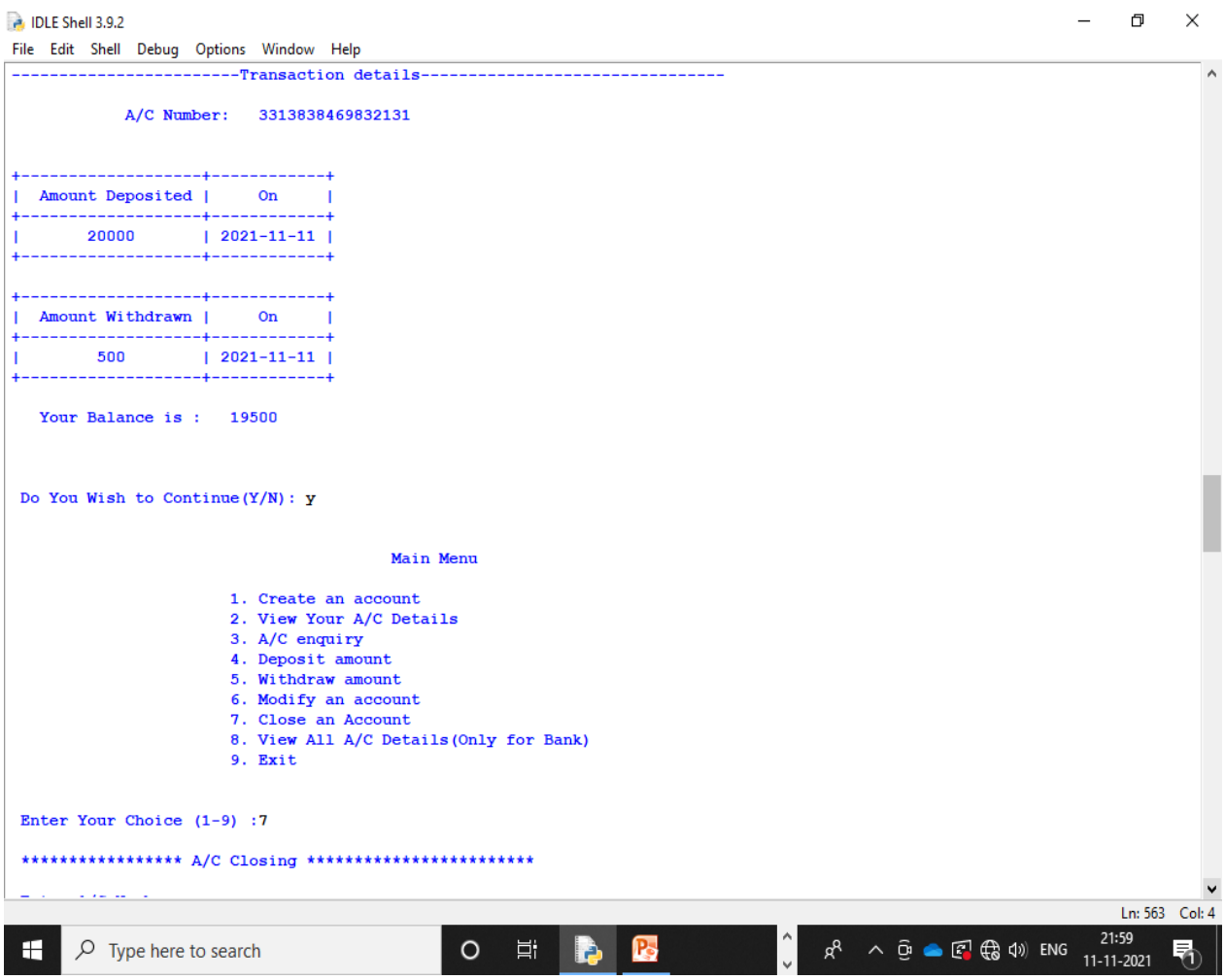
```
 1. Student
 2. Housewife
 3. Central Government
 4. State Government
 5. PSUs
 6. Private Companies
 7. Others

 (1/2/3/4/5/6/7):  1

 Income(in Rs.)

 1. 0-100000
 2. 100000-500000
 3. Above 5 Lakhs

 (1/2/3): 1

Enter Email Id: Ayush23@gmail.com


~~~~~~~~~~~~~~~~~~~~~~~~~~~~   YOUR ACCOUNT HAS BEEN SUCCESSFULLY CREATED   ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~


  YOUR CUSTOMER ID :   CQNF29430175

  YOUR ACCOUNT NUMBER:   3313838469832131


 Do You Wish to Continue(Y/N): y


                                        Main Menu

                      1. Create an account
                      2. View Your A/C Details
                      3. A/C enquiry
                      4. Deposit amount
                      5. Withdraw amount
                      6. Modify an account
```

```
                      7. Close an Account
                      8. View All A/C Details(Only for Bank)
                      9. Exit


 Enter Your Choice (1-9) :2

 ***************** A/C Details ************************

 Enter A/C number:  3313838469832131

   Customer ID  :  CQNF29430175

   Account Number  :  3313838469832131

   Name  :  Ayush Sharma

   Balance  :  0

   Age  :  19

   Father's Name  :  M

   Mother's Name  :  Praveen Kumar

   Gender  :  Kamla Sharma

   Mobile Number  :  9650640621

   Address  :  New Delhi

   Type of Account  :  Saving

   Educational Qualification  :  Intermediate

   Occupation  :  Student

   Income  :  0-100000

   Email ID  :  Ayush23@gmail.com
```

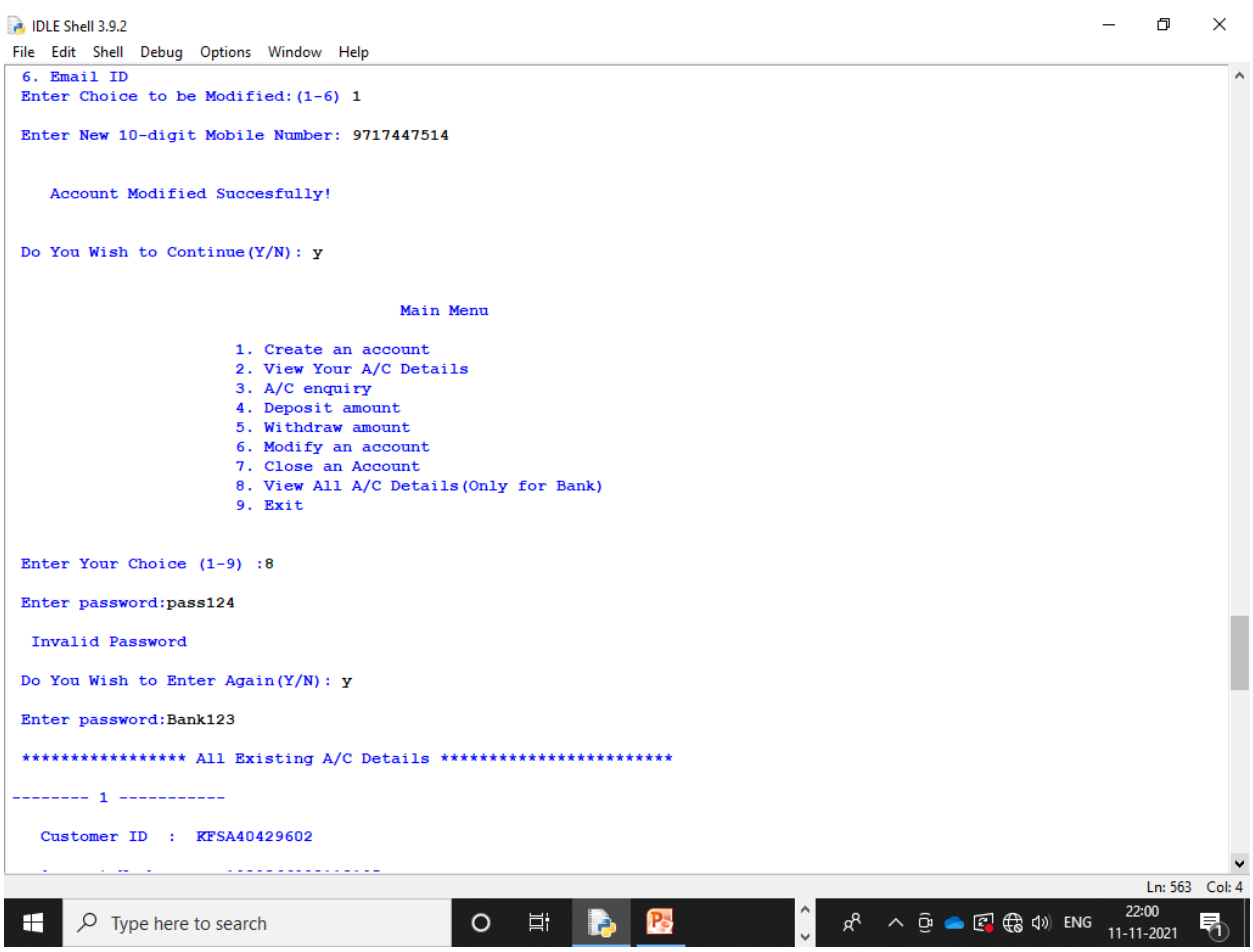

IDLE Shell 3.9.2
File Edit Shell Debug Options Window Help
Do You Wish to Continue(Y/N): y
Main Menu
1. Create an account
2. View Your A/C Details
3. A/C enquiry
4. Deposit amount
5. Withdraw amount
6. Modify an account
7. Close an Account
8. View All A/C Details(Only for Bank)
9. Exit
Enter Your Choice (1-9) :4
********** Deposit **********
Enter A/C number: 3313838469832131
Enter Your Name: Ayush
Enter Amount To Be Deposited: 20000
Amount Deposited
Your Balance is: 20000
Do You Wish to Continue(Y/N): y
Main Menu
1. Create an account
2. View Your A/C Details
3. A/C enquiry
4. Deposit amount
Ln: 563 Col: 4
Type here to search
ENG
21:58
11-11-2021

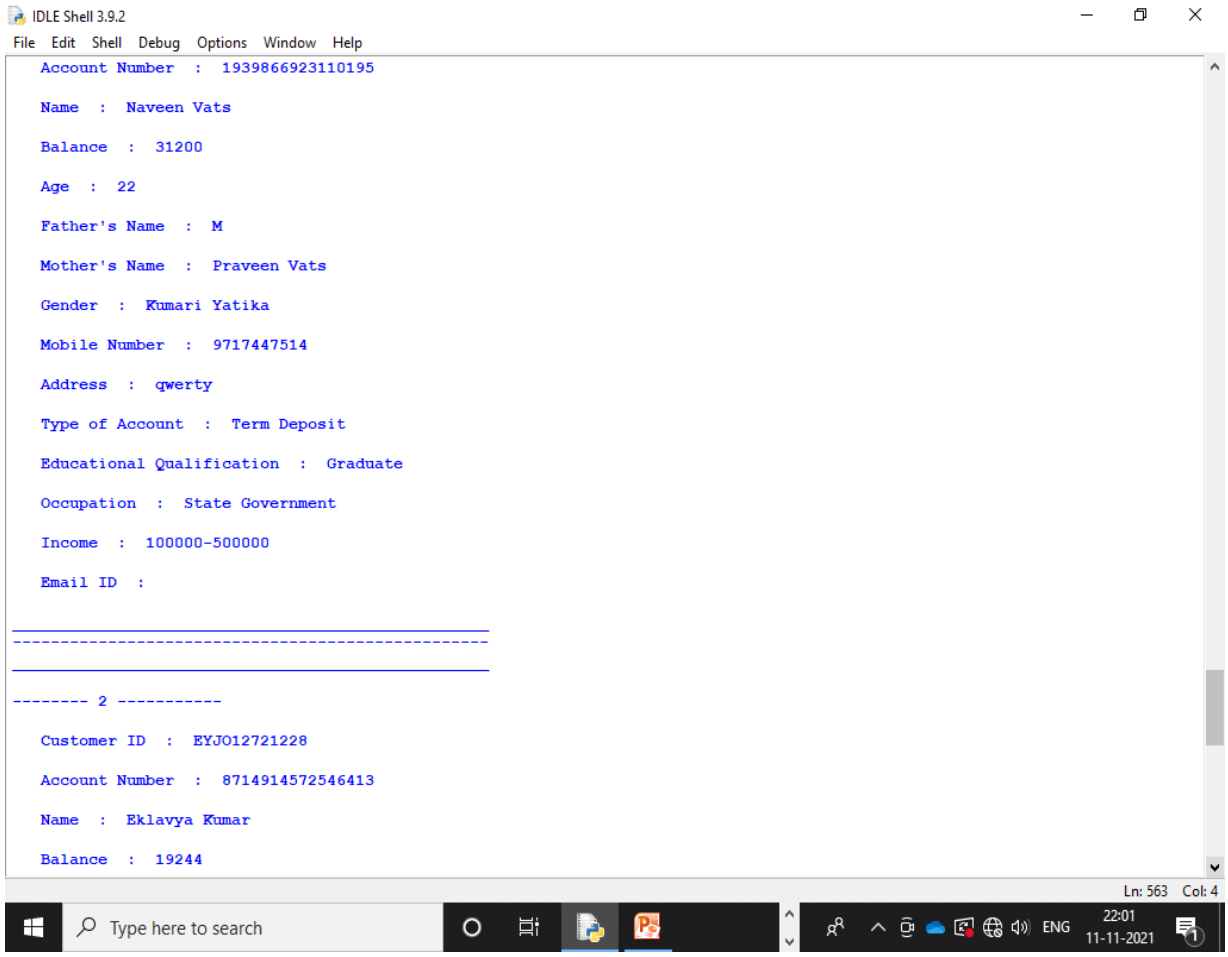

IDLE Shell 3.9.2
File Edit Shell Debug Options Window Help
5. Withdraw amount
6. Modify an account
7. Close an Account
8. View All A/C Details(Only for Bank)
9. Exit
Enter Your Choice (1-9) :5
********** Withdraw **********
Enter A/C number: 3313838469832131
Enter Your Name: Ayush
Enter Amount To Be Withdrawn: 500
Amount Withdrawn
Your Balance is: 19500
Do You Wish to Continue(Y/N): y
Main Menu
1. Create an account
2. View Your A/C Details
3. A/C enquiry
4. Deposit amount
5. Withdraw amount
6. Modify an account
7. Close an Account
8. View All A/C Details(Only for Bank)
9. Exit
Enter Your Choice (1-9) :3
Ln: 563 Col: 4
Type here to search
ENG
21:58
11-11-2021

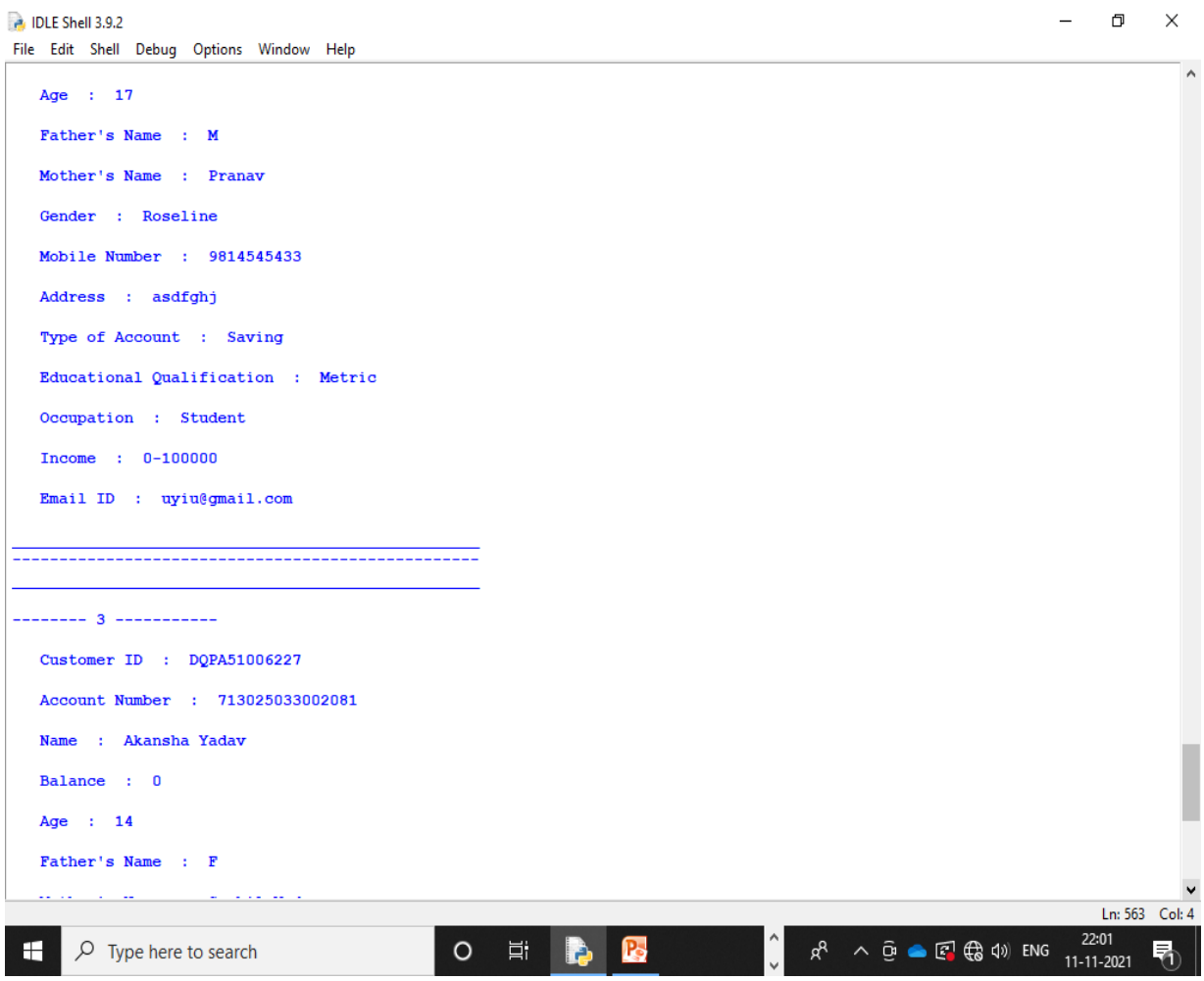

IDLE Shell 3.9.2
File Edit Shell Debug Options Window Help
1. Balance Enquiry
2. Transaction Details
Choose from above options(1-2): 1
********** Balance **********
Enter A/C number: 3313838469832131
Your Balance is: 19500
Do You Wish to Continue(Y/N): y
Main Menu
1. Create an account
2. View Your A/C Details
3. A/C enquiry
4. Deposit amount
5. Withdraw amount
6. Modify an account
7. Close an Account
8. View All A/C Details(Only for Bank)
9. Exit
Enter Your Choice (1-9) :3
1. Balance Enquiry
2. Transaction Details
Choose from above options(1-2): 2
********** Transaction Details **********
Enter A/C number: 3313838469832131
Ln: 563 Col: 4
Type here to search
ENG
21:58
11-11-2021

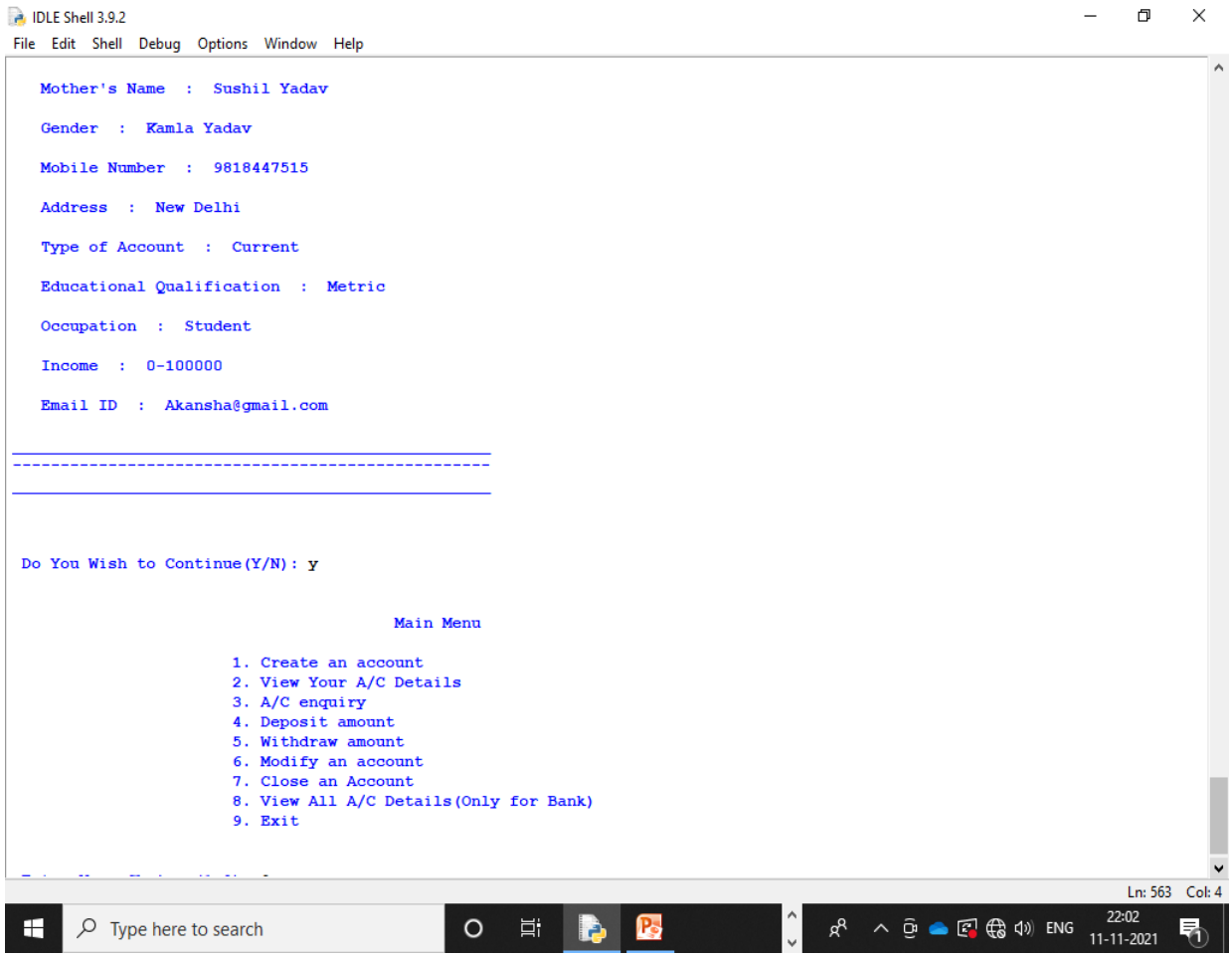

IDLE Shell 3.9.2
File Edit Shell Debug Options Window Help
----------Transaction details----------
A/C Number: 3313838469832131
Amount Deposited	On
20000	2021-11-11
Amount Withdrawn	On
500	2021-11-11
Your Balance is : 19500
Do You Wish to Continue(Y/N): y
Main Menu
1. Create an account
2. View Your A/C Details
3. A/C enquiry
4. Deposit amount
5. Withdraw amount
6. Modify an account
7. Close an Account
8. View All A/C Details(Only for Bank)
9. Exit
Enter Your Choice (1-9) :7
********** A/C Closing **********
Ln: 563 Col: 4
Type here to search
ENG
21:59
11-11-2021

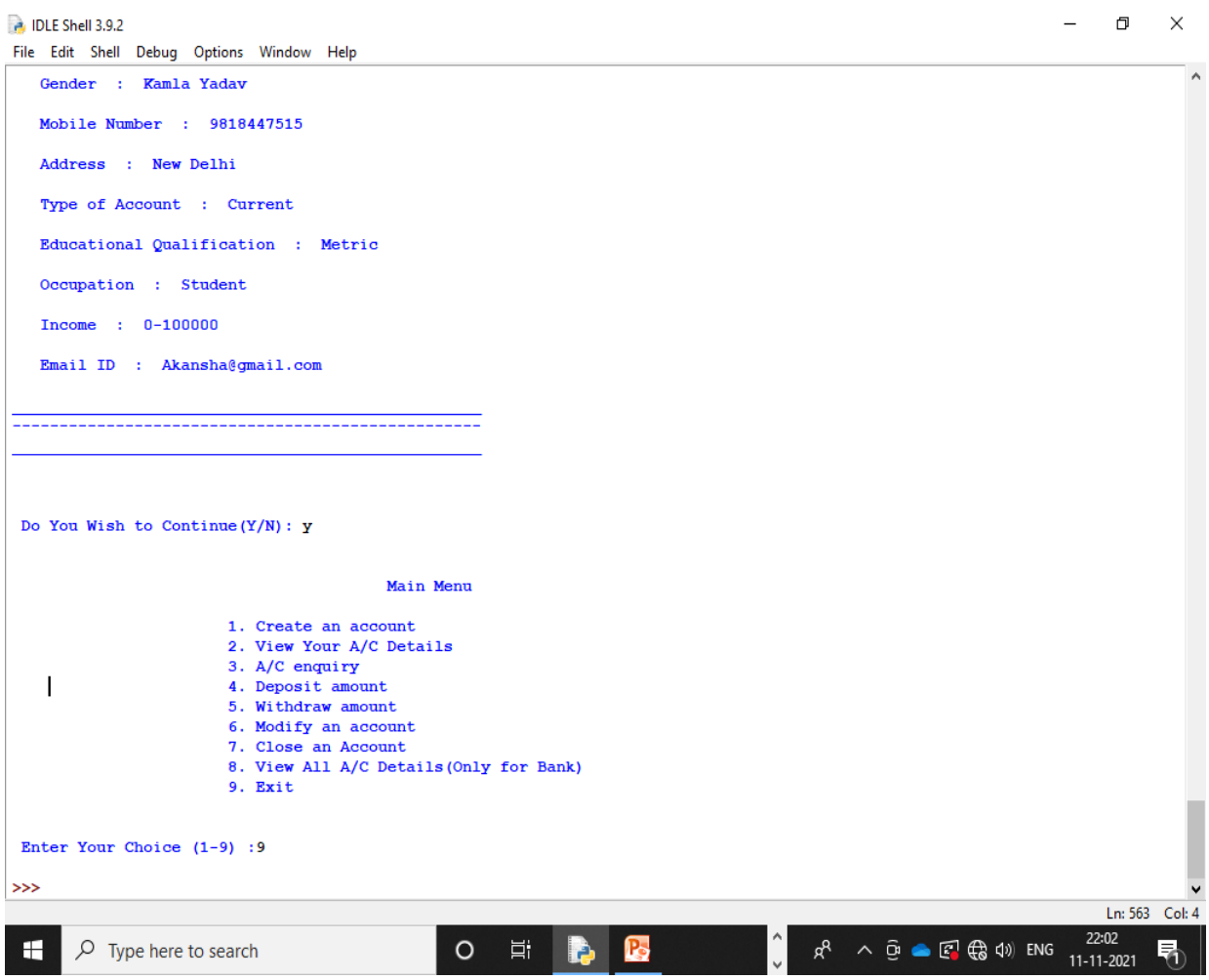

IDLE Shell 3.9.2
File Edit Shell Debug Options Window Help
Enter A/C Number: 3313838469832131
Alert!!!
You have Rs. 19500 in Your Account
Do You Still Want To Close Your account (Y-Yes/ N-No): y
Account Closed!
Do You Wish to Continue(Y/N): y
Main Menu
1. Create an account
2. View Your A/C Details
3. A/C enquiry
4. Deposit amount
5. Withdraw amount
6. Modify an account
7. Close an Account
8. View All A/C Details(Only for Bank)
9. Exit
Enter Your Choice (1-9) :6
********** A/C Modification **********
Enter A/C Number: 1939866923110195
Modify
1. Mobile Number
2. Educational Qualification
3. Occupation
4. Income
5. Address
Ln: 563 Col: 4
Type here to search
ENG
22:00
11-11-2021


IDLE Shell 3.9.2
File Edit Shell Debug Options Window Help
6. Email ID
Enter Choice to be Modified:(1-6) 1
Enter New 10-digit Mobile Number: 9717447514
Account Modified Succesfully!
Do You Wish to Continue(Y/N): y
Main Menu
1. Create an account
2. View Your A/C Details
3. A/C enquiry
4. Deposit amount
5. Withdraw amount
6. Modify an account
7. Close an Account
8. View All A/C Details(Only for Bank)
9. Exit
Enter Your Choice (1-9) :8
Enter password:pass124
Invalid Password
Do You Wish to Enter Again(Y/N): y
Enter password:Bank123
********** All Existing A/C Details **********
-------- 1 -----------
Customer ID : KFSA40429602
Ln: 563 Col: 4
Type here to search
ENG
22:00
11-11-2021


IDLE Shell 3.9.2
File Edit Shell Debug Options Window Help
Account Number : 1939866923110195
Name : Naveen Vats
Balance : 31200
Age : 22
Father's Name : M
Mother's Name : Praveen Vats
Gender : Kumari Yatika
Mobile Number : 9717447514
Address : qwerty
Type of Account : Term Deposit
Educational Qualification : Graduate
Occupation : State Government
Income : 100000-500000
Email ID :
-------- 2 -----------
Customer ID : EYJO12721228
Account Number : 8714914572546413
Name : Eklavya Kumar
Balance : 19244
Ln: 563 Col: 4
Type here to search
ENG
22:01
11-11-2021


IDLE Shell 3.9.2
File Edit Shell Debug Options Window Help
Age : 17
Father's Name : M
Mother's Name : Pranav
Gender : Roseline
Mobile Number : 9814545433
Address : asdfghj
Type of Account : Saving
Educational Qualification : Metric
Occupation : Student
Income : 0-100000
Email ID : uyiu@gmail.com
-------- 3 -----------
Customer ID : DQPA51006227
Account Number : 713025033002081
Name : Akansha Yadav
Balance : 0
Age : 14
Father's Name : F
Ln: 563 Col: 4
Type here to search
ENG
22:01
11-11-2021


IDLE Shell 3.9.2
File Edit Shell Debug Options Window Help
Mother's Name : Sushil Yadav
Gender : Kamla Yadav
Mobile Number : 9818447515
Address : New Delhi
Type of Account : Current
Educational Qualification : Metric
Occupation : Student
Income : 0-100000
Email ID : Akansha@gmail.com
Do You Wish to Continue(Y/N): y
Main Menu
1. Create an account
2. View Your A/C Details
3. A/C enquiry
4. Deposit amount
5. Withdraw amount
6. Modify an account
7. Close an Account
8. View All A/C Details(Only for Bank)
9. Exit
Ln: 563 Col: 4
Type here to search
ENG
22:02
11-11-2021


IDLE Shell 3.9.2
File Edit Shell Debug Options Window Help
Gender : Kamla Yadav
Mobile Number : 9818447515
Address : New Delhi
Type of Account : Current
Educational Qualification : Metric
Occupation : Student
Income : 0-100000
Email ID : Akansha@gmail.com
Do You Wish to Continue(Y/N): y
Main Menu
1. Create an account
2. View Your A/C Details
3. A/C enquiry
4. Deposit amount
5. Withdraw amount
6. Modify an account
7. Close an Account
8. View All A/C Details(Only for Bank)
9. Exit
Enter Your Choice (1-9) :9
>>>
Ln: 563 Col: 4
Type here to search
ENG
22:02
11-11-2021

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