# COMPUTER SCIENCE INVESTIGATORY PROJECT

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**SESSION 2019-2020** 

**ISHAN SINGH** 



### Certificate of Excellence

4
This is to certify that this project is done
by Mr Of class
during the academic year 2019-2020.
Date
Kendriya Vidyalaya
Sector-24, Noida
Submitted for ALL INDIA SENIOR SECONDARY EXAMINATION held in
DATE

## ACKNOWLEDGEMENT

I would like to express my special thanks of gratitude to my teacher MRS. Reetu Randev, who has been the primary source of guidance in this project, as well as our principal MR. M.K. Garg who gave me the golden opportunity to do this wonderful project. Which also helped me in doing a lot of Research and I came to know about so many new things I am really thankful to them.

Secondly I would also like to thank my parents and friends a lot in finalizing this project and for their valuable ideas and suggestion that helped to complete this project.

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## LIFESPARK BANK





Our project, LifesparkBank aims to provide a unique, easy to access, easy to operate, cost effective but sturdy methodology of banking system to its users.

LifesparkBank is developed using Python language with the help of tkinter library of python,

which with the help of its powerful GUI provides its users a very user friendly UI. Many special methods of tkinter library has been extensively utilised in our project.

To manage the large number of data and information, LifesparkBank takes the help of Mysql

database which provides it with seamless and smooth formation, manupilation and control of

large amount of records and data. This has been possible by using mysql connector from python which enables us to write and operate query on Python UI and execute it on Mysql

thus providing us with front end i.e, python where all commands are given and back end, i.e. Mysql, where are the execution of data takes place.

LifesparkBank provides its user with many functionality like:

- Registration This function takes credential from users as input and then registers them with lifesparkBank by opening their accounts with us.
- Login It gives the users accessibility to their accounts by logging them into their accounts securely with is done with the sytem of name, account number, and user chosen password, thus making lifesparkBank more secure.
- deposit It enables the users to deposit their money into their accounts
- withdraw It enables the user to withdraw their money into their withdraw.
- transfer it gives the users opportunity to directly take money from their accounts and deposit it into another persons account by giving their name and account number only

The combination of all these functions, combined with the accessibility of LifesparkBank provides its users the best platform to operate and manage their assets. It is also an ideal platform for small retailers from rural areas, which are the target audiences. The functionality of LifesparkBank also helps us to move towards a more cashless economy thus providing more transperency in the whole system.

# Source Code

```
#LifeSpark Bank
#Made by Ishan and Yash
```

from tkinter import \*
from tkinter.ttk import Combobox

#### import mysql.connector

```
c = 'C:\\Users\\acer\\Desktop\\InvestigatoryProject\\PythonProject\\Bank Management
System_project\\images\\Background.gif'#image of background
d = 'C:\\Users\\acer\\Desktop\\InvestigatoryProject\\PythonProject\\Bank Management
System_project\\images\\favicon.ico'#image of bulb icon
e = 'C:\\Users\\acer\\Desktop\\InvestigatoryProject\\PythonProject\\Bank Management
System_project\\images\\lifespark.gif'#image of title :- LIFESPARK BANK
f = 'C:\\Users\\acer\\Desktop\\InvestigatoryProject\\PythonProject\\Bank Management
System_project\\images\\dashboard.gif'#image of dashboard
g = 'C:\\Users\\acer\\Desktop\\InvestigatoryProject\\PythonProject\\Bank Management
System project\\images\\registration.gif'#image of registration
h = 'C:\\Users\\acer\\Desktop\\InvestigatoryProject\\PythonProject\\Bank Management
System_project\\images\\update.gif' #image of update
i = 'C:\\Users\\acer\\Desktop\\InvestigatoryProject\\PythonProject\\Bank Management
System_project\\images\\deposit.gif' #image of deposit
j = 'C:\\Users\\acer\\Desktop\\InvestigatoryProject\\PythonProject\\Bank Management
System_project\\images\\withdraw.gif' #image of withdraw
k = 'C:\\Users\\acer\\Desktop\\InvestigatoryProject\\PythonProject\\Bank Management
System_project\\images\\transfer.gif' #image of transfer
```

```
mydb = mysql.connector.connect(
host="localhost",
user="root",
                 #Enter your system's mysql username
                       #and password
passwd="password",
database="LifesparkBank"
mycursor = mydb.cursor()
""-----USE THESE TO CREATE NEW DATABASE OR TABLE IF NOT EXIST-----
mycursor.execute('CREATE DATABASE IF NOT EXISTS LifeSparkBank')
mycursor.execute("CREATE TABLE if not exists Accounts (Accno INT(5)ZEROFILL
AUTO INCREMENT PRIMARY KEY,
                       fname varchar(20),
                       Iname varchar(20),
                       DOB DATE.
                       Mobile_number varchar(11),
                       email varchar(25),
                       City varchar(20),
                        PINCODE int,
                       Balance amount int,
                       password varchar(40))")
#mycursor.execute('DROP table accounts')
```

```
""------WINDOWS------
def opwin1():
  global background_image1
  global background_image17
  HEIGHT = 600
  WIDTH = 650
  top = Toplevel()
  top.title('BANK MANAGEMENT')
  top.iconbitmap(d)
  canvas1 = Canvas(top, height = HEIGHT, width = WIDTH)
  canvas1.pack()
  background_image1 = PhotoImage(file=c)
  background_label1 = Label (top, image = background_image1)
  background_label1.place(relwidth =1 ,relheight =1)
  background_image17 = PhotoImage(file= f)
  background_label17 = Label (top, image = background_image17)
  background_label17.place(relwidth = 1 ,relheight = 0.15)
  frame3 = Frame (top, bg = "#80c1ff",bd =5)
  frame3.place(relx = 0.1, rely = 0.18, relwidth = 0.35, relheight = 0.3)
  frame3 = Frame (top, bg = "#80c1ff",bd =5)
  frame3.place(relx =0.1, rely =0.58, relwidth = 0.35, relheight = 0.3)
  frame4 = Frame (top, bg = "#80c1ff",bd =5)
  frame4.place(relx = 0.57, rely = 0.18, relwidth = 0.35, relheight = 0.3)
  frame4 = Frame (top, bg = "#80c1ff", bd = 5)
 frame4.place(relx = 0.57, rely = 0.58, relwidth = 0.35, relheight = 0.3)
#-----#
  def opwin2 ():
    global background_image2
    global background_image21
    HEIGHT = 600
    WIDTH = 650
    top1 = Toplevel()
    top1.title('BANK MANAGEMENT')
    top1.iconbitmap(d)
    canvas2 = Canvas(top1, height = HEIGHT, width = WIDTH)
    canvas2.pack()
```

```
background_image2 = PhotoImage(file=c)
     background label2 = Label (top1, image = background image2)
     background_label2.place(relwidth =1, relheight =1)
    background_image21 = PhotoImage(file=j)
    background_label21 = Label (top1, image = background_image21)
    background label21.place(relwidth =1 ,relheight =0.15)
    I4 = Label(top1, text = "Amount:", font = 'bold 36')
    14.place(relx=0.07, rely=0.47)
    frame5 = Frame (top1, bg = "#80c1ff",bd =5)
    frame5.place(relx = 0.37, rely = 0.43, relwidth = 0.6, relheight = 0.2)
    e3 = Entry(frame5, font = 'bold 40')
    e3.place (relwidth = 0.6, relheight = 1,anchor = 'nw')#withdraw
    def withdraw():
         withdraw_amount=e3.get()
         val=(withdraw_amount,fname,lname,passwd)
         sql='UPDATE accounts SET balance_amount=balance_amount-(%s)WHERE fname=%s
AND Iname=%s AND password=%s'
         mycursor.execute(sql,val)
         mydb.commit()
         opwin3()
    def opwin3 ():
       global background_image3
       HEIGHT = 600
       WIDTH = 650
       top2 = Toplevel()
       top2.title('BANK MANAGEMENT')
       top2.iconbitmap(d)
       canvas3 = Canvas(top2, height = HEIGHT, width = WIDTH)
       canvas3.pack()
       background_image3 = PhotoImage(file= c)
       background_label3 = Label (top2, image = background_image3)
       background_label3.place(relwidth =1 ,relheight =1)
       I5 = Label(top2, text = "Money had been withdrawn.", font = 'bold 36')
       15.place(relx=0.07, rely=0.42)
       I6 = Label(top2, text = "
                                 Visit Again !!", font = ' bold 36')
       16.place(relx=0.07, rely=0.51)
    b4 = Button(top1,text = "ENTER",font = bold 30',bg = white, command = withdraw)
     b4.place(relx = 0.74, rely = 0.44, relwidth = 0.22, relheight = 0.18)
  b2 = Button(top,text = "WITHDRAW",font = bold 27',bg = white, command = opwin2)
```

```
b2.place(relx = 0.11, rely = 0.19, relwidth = 0.33, relheight = 0.28)
#-----Deposit------
  def opwin6 ():
    global background_image2
    global background image20
    HEIGHT = 600
    WIDTH = 650
    top6 = Toplevel()
    top6.title('BANK MANAGEMENT')
    top6.iconbitmap(d)
    canvas6 = Canvas(top6, height = HEIGHT, width = WIDTH)
    canvas6.pack()
    background_image2 = PhotoImage(file= c)
    background label2 = Label (top6, image = background image2)
    background_label2.place(relwidth =1 ,relheight =1)
    background_image20 = PhotoImage(file= i)
    background_label20 = Label (top6, image = background_image20)
    background_label20.place(relwidth =1 ,relheight =0.15)
    I6 = Label(top6, text = "Amount:", font = 'bold 36')
    16.place(relx=0.07, rely=0.47)
    frame6 = Frame (top6, bg = "#80c1ff",bd =5)
    frame6.place(relx = 0.37, rely = 0.43, relwidth = 0.6, relheight = 0.2)
    e6 = Entry(frame6, font = 'bold 40')
    e6.place (relwidth = 0.6, relheight = 1,anchor = 'nw')#deposit
    def deposit():
         add amount=e6.get()
         val=(add_amount,fname,lname,passwd)
         sql='UPDATE accounts SET balance_amount=balance_amount+(%s)WHERE fname=%s
AND Iname=%s AND password=%s'
         mycursor.execute(sql,val)
         mydb.commit()
         opwin7()
    def opwin7 ():
      global background_image3
      HEIGHT = 600
      WIDTH = 650
      top7 = Toplevel()
      top7.title('BANK MANAGEMENT')
      top7.iconbitmap(d)
```

```
canvas7 = Canvas(top7, height = HEIGHT, width = WIDTH)
      canvas7.pack()
      background_image3 = PhotoImage(file= c)
      background_label3 = Label (top7, image = background_image3)
      background_label3.place(relwidth =1 ,relheight =1)
      I7 = Label(top7, text = "Money had been Deposited.", font = 'bold 36')
      17.place(relx=0.07, rely=0.42)
      I8= Label(top7, text = " Visit Again !!", font = 'bold 36')
      18.place(relx=0.07, rely=0.51)
    b11 = Button(top6,text = "ENTER",font = bold 30',bg = white, command = deposit)
    b11.place(relx = 0.74, rely = 0.44, relwidth = 0.22, relheight = 0.18)
  b10 = Button(top,text = "DEPOSIT",font = 'bold 27',bg = 'white', command = opwin6)
  b10.place(relx = 0.11, rely = 0.59, relwidth = 0.33, relheight = 0.28)
#-----Transfer
  def opwin8 ():
    global background_image2
    global background_image22
    HEIGHT = 600
    WIDTH = 650
    top1 = Toplevel()
    top1.title('BANK MANAGEMENT')
    top1.iconbitmap(d)
    canvas2 = Canvas(top1, height = HEIGHT, width = WIDTH)
    canvas2.pack()
    background_image2 = PhotoImage(file= c)
    background_label2 = Label (top1, image = background_image2)
    background_label2.place(relwidth =1 ,relheight =1)
    background_image22 = PhotoImage(file= k)
    background_label22 = Label (top1, image = background_image22)
    background_label22.place(relwidth =1 ,relheight =0.15)
    I4 = Label(top1, text = "Amount:", font = 'bold 36')
    14.place(relx=0.07, rely=0.53)
    frame5 = Frame (top1, bg = "#80c1ff",bd =5)
    frame5.place(relx = 0.37, rely = 0.49, relwidth = 0.6, relheight = 0.2)
    e345 = Entry(frame5, font = 'bold 40')
    e345.place (relwidth = 0.6, relheight = 1,anchor = 'nw') #transfer amount
    I12 = Label(top1, text = "Account no. of reciever:", font = 'bold 20')
    112.place(relx=0.07, rely=0.25)
```

```
frame 12 = Frame (top 1, bg = "#80c1ff", bd = 5)
    frame12.place(relx = 0.07, rely = 0.32, relwidth = 0.6, relheight = 0.08)
    e126 = Entry(frame12, font = 'bold 20')
    e126.place (relwidth = 1, relheight = 1, anchor = 'nw') #account no. of reciever
    frame112 = Frame (top1, bg = \#80c1ff, bd =5)
    frame112.place(relx = 0.42, rely = 0.40, relwidth = 0.6, relheight = 0.08)
    I12 = Label(top1, text = "Name of reciever:", font = 'bold 20')
    112.place(relx=0.07, rely=0.40)
    ename= Entry(frame112, font = 'bold 20')
    ename.place(relwidth=0.6, relheight=1,anchor = 'nw')
    def transfer():
         fname=ename.get()
         accno=e126.get()
         amount=e345.get()
         val=(amount,accno,fname)
         sql= 'UPDATE accounts SET balance_amount=balance_amount+(%s) WHERE
accno=%s AND fname=%s'
         mycursor.execute(sql,val)
         ifname=e123.get()
         ilname=e223.get()
         iaccno=e1.get()
         val1=(amount,iaccno,ifname)
         sql1= 'UPDATE accounts SET balance_amount=balance_amount-(%s) WHERE
accno=%s AND fname=%s'
         mycursor.execute(sql1,val1)
         mydb.commit()
         opwin5()
    def opwin5 ():
       global background_image3
       HEIGHT = 600
       WIDTH = 650
       top2 = Toplevel()
       top2.title('BANK MANAGEMENT')
       top2.iconbitmap(d)
       canvas3 = Canvas(top2, height = HEIGHT, width = WIDTH)
       canvas3.pack()
       background image3 = PhotoImage(file= c)
       background_label3 = Label (top2, image = background_image3)
       background_label3.place(relwidth =1 ,relheight =1)
```

```
15 = Label(top2, text = "Money had been Transferred.", font = 'bold 36')
       15.place(relx=0.04, rely=0.42)
       I6 = Label(top2, text = " Visit Again !!", font = 'bold 36')
       16.place(relx=0.07, rely=0.51)
     b4 = Button(top1,text = "ENTER",font = 'bold 30',bg = 'white', command = transfer)
     b4.place(relx = 0.74, rely = 0.50, relwidth = 0.22, relheight = 0.18)
  b8 = Button(top,text = "TRANSFER",font = 'bold 27',bg = 'white', command = opwin8 )
  b8.place(relx = 0.58, rely = 0.19, relwidth = 0.33, relheight = 0.28)
'------"
HEIGHT = 600
WIDTH = 650
window = Tk()
window.title(" BANK MANAGEMENT")
window.iconbitmap(d)
canvas = Canvas(window, height = HEIGHT, width = WIDTH)
canvas.pack()
background_image = PhotoImage(file= c)
background_label = Label (window, image = background_image)
background_label.place(relwidth =1 ,relheight =1)
background_image16 = PhotoImage(file= e)
background_label16 = Label (window, image = background_image16)
background_label16.place(relwidth = 1 ,relheight = 0.185)
I123 = Label(window, text = "First Name*", font = {'Helvetica',10})
I123.place(relx= 0.1, rely =0.27)
I223 = Label(window, text = "Last Name*", font = {'Helvetica', 10})
1223.place(relx=0.5, rely=0.27)
```

```
frame 123 = Frame (window, bg = "#80c1ff", bd = 5)
frame 123. place (relx = 0.1, rely = 0.32, relwidth = 0.35, relheight = 0.06)
frame223 = Frame (window, bg = "#80c1ff",bd =5)
frame223.place(relx = 0.5, rely = 0.32, relwidth = 0.35, relheight = 0.06)
e123 = Entry(frame123, font = 40)
e123.place (relwidth = 1, relheight = 1)#first name login
e223 = Entry(frame223, font = 40)
e223.place (relwidth = 1, relheight = 1)#last name login
I1 = Label(window, text = "Account No.*", font = {'Helvetica',10})
11.place(relx=0.1, rely=0.4)
I2 = Label(window, text = "Pasword*",font = {'Helvetica',10})
12.place(relx=0.1, rely=0.53)
I3 = Label(window, text = "Don't have an account? Try signing up.")
13.place(relx = 0.1, rely = 0.64)
frame1 = Frame (window, bg = "#80c1ff",bd =5)
frame1.place(relx = 0.1, rely = 0.45, relwidth = 0.7, relheight = 0.06)
frame2 = Frame (window, bg = "#80c1ff",bd =5)
frame2.place(relx = 0.1, rely = 0.58, relwidth = 0.7, relheight = 0.06)
e1 = Entry(frame1, font = 40)
e1.place (relwidth = 1, relheight = 1) #account no. login
e2 = Entry(frame2, font = 40, show = \frac{1}{2})
e2.place (relwidth = 1, relheight = 1)#password login
def login():
    global fname, Iname, Accno, passwd
    fname = e123.get()
    Iname = e223.get()
    Accno = e1.get()
    passwd= e2.get()
    mycursor = mydb.cursor(buffered=True)
    #Exception handling, i,e. calling out for wrong login credentials
    mycursor.execute("SELECT Accno,fname,password,Iname FROM accounts")
    table_data = mycursor.fetchall()
    for i in range (0,len(table_data)):
```

```
if table_data[i][1]==fname and table_data[i][2]==passwd and table_data[i][3]==lname:
         val=(fname,lname,passwd)
         sql="SELECT * FROM accounts WHERE fname = %s AND Iname= %s AND
password=%s"
         mycursor.execute(sql,val)
         mydb.commit()
         opwin1()
         break
      else:
         print("The information entered is incorrect,please try again")
         continue
         login()
b1 = Button(window,text = "Login",font = 40,bg = '#80c1ff',command = login)
b1.place(relx = 0.77, rely = 0.73)
""------"
def opwin4 ():
      global background_image4
      global background_image18
      global combo
      HEIGHT = 600
      WIDTH = 650
      top3 = Toplevel()
      top3.title('BANK MANAGEMENT')
      top3.iconbitmap(d)
      canvas4 = Canvas(top3, height = HEIGHT, width = WIDTH)
      canvas4.pack()
      background_image4 = PhotoImage(file= c)
      background_label4 = Label (top3, image = background_image4)
      background_label4.place(relwidth =1 ,relheight =1)
      background_image18 = PhotoImage(file= g )
```

```
background_label18 = Label (top3, image = background_image18)
       background_label18.place(relwidth = 1 ,relheight = 0.15)
       frame6 = Frame (top3, bg = "#80c1ff",bd =5)
       frame6.place(relx = 0.1, rely = 0.28, relwidth = 0.43, relheight = 0.06)
       I5 = Label(top3, text = "First Name", font = '40')
       15.place(relx = 0.11, rely = 0.29,relwidth= 0.15, relheight = 0.04)
       e34 = Entry(top3, font = '40')
       e34.place (relx= 0.27, rely= 0.29, relwidth = 0.25, relheight = 0.04) # first name register
       frame61 = Frame (top3, bg = "#80c1ff",bd =5)
       frame61.place(relx = 0.5, rely = 0.28, relwidth = 0.43, relheight = 0.06)
       I51 = Label(top3, text = "Last Name", font = '40')
       151.place(relx = 0.51, rely = 0.29, relwidth = 0.15, relheight = 0.04)
       e31 = Entry(top3, font = '40')
       e31.place (relx= 0.67, rely= 0.29, relwidth = 0.25, relheight = 0.04) #last name register
       frame7 = Frame (top3, bg = "#80c1ff",bd =5)
       frame7.place(relx = 0.1, rely = 0.35, relwidth = 0.4, relheight = 0.06)
       I6 = Label(frame7, text = "Gender", font = '40')
       16.place(relwidth= 0.23, relheight = 1)
       v12 = [ 'Male', 'Female', 'Rather not say' ]
       combo = Combobox (top3, values = v12, font = {'Helvetica', 10})
       combo.place (relx= 0.21, rely= 0.36, relwidth = 0.28, relheight = 0.04) # gender register
       frame8 = Frame (top3, bg = "#80c1ff",bd =5)
       frame8.place(relx = 0.1, rely = 0.42, relwidth = 0.59, relheight = 0.06)
       I7 = Label(top3, text = "Date of birth", font = '40')
       17.place(relx= 0.11, rely= 0.43, relwidth = 0.14, relheight = 0.04)
       d1 = Entry(top3, font = {"Helvetica", 10})
       d1.place (relx= 0.31, rely= 0.43, relwidth = 0.07, relheight = 0.04) #combobox day register
       I7 = Label(top3, text = "Date", font = '40')
       17.place(relx = 0.26, rely = 0.43, relwidth = 0.05, relheight = 0.04)
       d2 = Entry(top3, font = {'Helvetica', 10})
       d2.place (relx= 0.45, rely= 0.43, relwidth = 0.07, relheight = 0.04) #combobox month
register
```

```
17 = Label(top3, text = "Month", font = '40')
       17.place(relx= 0.38, rely= 0.43, relwidth = 0.07, relheight = 0.04)
       d3 = Entry( top3 ,font ={'Helvetica',10} )
       d3.place (relx= 0.58, rely= 0.43, relwidth = 0.1, relheight = 0.04) #combobox year register
       17 = Label(top3, text = "Year", font = '40')
       17.place(relx = 0.52, rely = 0.43, relwidth = 0.06, relheight = 0.04)
       frame9 = Frame (top3, bg = "#80c1ff",bd =5)
       frame9.place(relx =0.1, rely =0.49, relwidth = 0.52, relheight = 0.06)
       17 = \text{Label}(\text{top3}, \text{text} = \text{"Mobile No."}, \text{font} = \text{'40'})
       17.place(relx = 0.11, rely = 0.50, relwidth = 0.14, relheight = 0.04)
       e6 = Entry(top3, font = '40')
       e6.place (relx= 0.42, rely= 0.50, relwidth = 0.19, relheight = 0.04) # mobile no. register
       v = ['(AFG)"+93','(ALB)"+355','(DZA)"+213','(ASM)'"+1','(AND)"+376',"(AGO)"+244','(ANG)"]
'+1','(ATG)' '+1', '(ARG)"+54','(ARM)' '+374',
          '(ABW)' '+297','(AUS)' '+61', '(AUT)"+43', '(AZE)"+994','(BHS)' '+1','(BHR)' '+973',
'(BGD)"+880',
           '(BRB)"+1','(BLR)' '+375','(BEL)' '+32','(BLZ)' '+501','(BEN)' '+229', '(BMU)"+1','(BTN)'
'+975',
          '(BOL)' '+591','(BIH)' '+387','(BWA)' '+267','(BRA)' '+55','(BRN)' '+673',
'(BGR)"+359', '(BFA)' '+226',
          '(BDI)' '+257', '(KHM)"+855', '(CMR)' '+237', '(CAN )"+1', '(CPV)' '+238', '(CYM )"+1', '(CAF)'
'+236',
          '(TCD)"+235','(CHL)"+56','(CHN)' '+86','(CXR)' '+61', '(CCK)"+61', '(COL)"+57','(COM)'
'+269',
          '(COD)' '+242','(COK)' '+682','(CRI)' '+506','(CIV)' '+225','(HRV)' '+385','(CUB)"+53',
          '(CYP)' '+357','(CZE)' '+420','(DNK)"+45' ,'(DJI)"+253' ,'(DMA)"+1'
,'(DOM)"+1','(ECU)"+593','(EGY)"+20',
          '(SLV)' '+503', '(GNQ)' '+240', '(ERI)' '+291', '(EST)' '+372', '(ETH)"+251', '(FLK)' '+500',
          '(FRO)' '+298', '(FJI)' '+679', '(FIN)' '+358', '(FRA)"+33', '(GUF)' '+594', '(PYF)' '+689',
          '(GAB)"+241', '(GMB)' '+220', '(GEO)' '+995', '(DEU)' '+49', '(GHA)' '+233', '(GIB)' '+350',
          '(GRC)' '+30', '(GRL)' '299', '(GRD)"+1', '(GLP)' '+590', '(GUM)' '+1', '(GTM )' '+502', '(GIN)'
'+224', '(GNB)' '+245',
          '(GUY)' '+592', '(HTI)' '+509', '(VAT)' '+379', '(HND)' '+504', '(HKG)' '+852', '(HUN)' '+36',
'(ISL)' '+354', '(IND)"+91',
          '(IDN)' '+62', '(IRN)' '+98', '(IRQ)' '+964', '(IRL)' '+353', '(ISR)' '+972', '(ITA)' '+39', '(JAM)'
'+876','(JPN)' '+81','(JOR)' '+962',
           '(KAZ)"+7','(KEN)' '+254', '(KIR)' '+686','(PRK)' '+850', '(KOR)' '+82','(KWT)' '+965',
'(KGZ)' '+996','(LAO)' '+856',
           '(LVA)"+371', '(LBN)' '+961', '(LSO)"+266', '(LBR)' '+231', '(LBY)' '+218', '(LIE)' '+423',
'(LTU)' '+370','(LUX)' '+352',
          '(MAC)' '+853','(MKD)' '+389', '(MDG)' '+261','(MWI)' '+265','(MYS)' '+60', '(MDV)' '+960',
'(MLI)' '+223', '(MLT)' '+356',
```

```
'(MHL)' '+692', '(MTQ)"+596', '(MRT)' '+222', '(MUS)' '+230', '(MYT)' '+262', '(MEX)'
'+52','(FSM)' '+691', '(MDA)' '+373',
          '(MCO)' '+377', '(MNG)' '+976', '(MNE)' '+382', '(MSR)' '+1', '(MAR)' '+212', '(MOZ)' '+258',
'(MMR)' '+95','(NAM)' '+264',
           '(NRU)' '+674','(NPL)' '+977','(NLD)' '+31','(ANT)' '+599', '(NCL)' '+687', '(NZL)' '+64',
'(NIC)' '+505','(NER)' '+227',
          '(NGA)' '+234', '(NIU)' '+683', '(NFK)' '+672', '(MNP)' '+1', '(NOR)"+47', '(OMN)' '+968',
'(PAK)' '+92','(PLW)' '+680',
           '(PSE)"+970', '(PAN)' '+507', '(PNG)' '+675', '(PRY)' '+595', '(PER)' '+51', '(PHL)' '+63',
'(PCN)' '+870','(POL)' '+48',
           '(PRT)"+351', '(PRI)' '+1', '(QAT)' '+974', '(REU)' '+262', '(ROU)' '+40', '(RUS)' '+7', '(RWA)'
'+250','(SHN)' '+290','(KNA)' '+1',
          '(LCA)' '+1','(SPM)' '+508', '(VCT)"+1', '(WSM)' '+685', '(SMR)' '+378', '(STP)' '+239',
'(SAU)' '+966', '(SEN)' '+221',
          '(SRB)' '+381','(SYC)' '+248', '(SLE)' '+232', '(SGP)' '+65','(SVK)' '+421','(SVN)' '+386',
'(SLB)' '+677', '(SOM)' '+252',
           '(ZAF)' '+27', '(ESP)' '+34', '(LKA)' '+94', '(SDN)' '+249', '(SUR)' '+597', '(SJM0' '+47', '(SWZ)'
'+268','(SWE)' '+46','(CHE)' '+41',
          '(SYR0' '+963', '(TWN)' '+886', '(TJK)' '+992', '(TZA)' '+255', '(THA)' '+66', '(TGO)'
'+228','(TKL)' '+690',
          '(TON)' '+676', '(TTO)' '+1', '(TUN)' '+216', '(TUR)' '+90', '(TKM)' '+993', '(TCA)' '+1', '(TUV)'
'+688','(UGA)' '+256','(UKR)' '+380',
           '(ARE)"+971', '(GBR)' '+44', '(USA)' '+1', '(URY)' '+598', '(UZB)' '+998', '(VUT)'
'+678','(VEN)' '+58', '(VNM)' '+84', '(VIR)' '+1',
           '(WLF)' '+681','(YEM)' '+967', '(ZMB)' '+260', '(ZWE)' '+263' ]
       combo = Combobox (top3, values = v, font = {'Helvetica', 10}, )
       combo.place (relx= 0.26, rely= 0.50, relwidth = 0.16, relheight = 0.04) # combobox mobile
no. country code register
       frame7 = Frame (top3, bg = "#80c1ff",bd =5)
       frame7.place(relx = 0.1, rely = 0.56, relwidth = 0.4, relheight = 0.06)
       16 = Label(frame7, text = "Email", font = '40')
       16.place(relwidth= 0.23, relheight = 1)
       e48 = Entry(top3, font = '40')
       e48.place (relx= 0.21, rely= 0.57, relwidth = 0.28, relheight = 0.04) #email register
       frame6 = Frame (top3, bg = \#80c1ff, bd =5)
       frame6.place(relx = 0.1, rely = 0.63, relwidth = 0.36, relheight = 0.06)
       15 = Label(top3, text = "City", font = '40')
       15.place(relx = 0.11 , rely = 0.64 , relwidth = 0.07, relheight = 0.04)
```

```
e38 = Entry(top3, font = '40')
e38.place (relx= 0.19, rely= 0.64, relwidth = 0.26, relheight = 0.04) #city register
frame7 = Frame (top3, bg = "#80c1ff",bd =5)
frame7.place(relx = 0.1, rely = 0.7, relwidth = 0.29, relheight = 0.06)
16 = Label(top3, text = "Pincode", font = '40')
16.place(relx = 0.11, rely = 0.71, relwidth = 0.1, relheight = 0.04)
e47 = Entry(top3, font = '40')
e47.place (relx= 0.22, rely= 0.71, relwidth = 0.16, relheight = 0.04) #pincode register
frame 10 = \text{Frame (top 3, bg} = \text{"#80c1ff",bd} = 5)
frame 10. place (relx = 0.1, rely = 0.76, relwidth = 0.29, relheight = 0.06)
110 = Label(top3, text = "Balance", font = '40')
110.place(relx = 0.11, rely = 0.76, relwidth = 0.1, relheight = 0.04)
bl1 = Entry(top3, font = '40')
bl1.place (relx= 0.22, rely= 0.76, relwidth = 0.16, relheight = 0.04)#Balance
frame7 = Frame (top3, bg = "#80c1ff",bd =5)
frame7.place(relx = 0.1, rely = 0.84, relwidth = 0.4, relheight = 0.06)
I6 = Label(frame7, text = "Password", font = '40')
16.place(relwidth= 0.29, relheight = 1)
e43 = Entry(top3, font = '40')
e43.place (relx= 0.23, rely= 0.85 ,relwidth = 0.26 , relheight = 0.04 )#password register
def opwin5 ():
  global background_image5
  HEIGHT = 600
  WIDTH = 650
  top4 = Toplevel()
  top4.title('BANK MANAGEMENT')
  top4.iconbitmap(d)
  canvas5 = Canvas(top4, height = HEIGHT, width = WIDTH)
```

```
canvas5.pack()
         background_image5 = PhotoImage(file= c)
         background_label5 = Label (top4, image = background_image5)
         background_label5.place(relwidth =1, relheight =1)
         I5 = Label(top4, text = "Your account is created !!", font = 'bold 36')
         I5.place(relx= 0.07, rely =0.42)
         I11 = Label(top4, text='Your Account number is',font = 'bold 24')
         111.place(relx=0.07, rely = 0.50)
         I12 = Label(top4, text = table_data[0], font = 'bold 24')
         112.place(relx = 0.3, rely = 0.50)
         I6 = Label(top4, text =" Try logging in. ", font = 'bold 36')
         l6.place(relx= 0.07, rely =0.54)
       def new_account():
              fname = e34.get()
              Iname = e31.get()
              DOB = int(str(d3.get())+str(d2.get())+str(d1.get()))
              passwd = e43.get()
              email = e48.get()
              city = e38.get()
              pincode= e47.get()
              mobile_number = e6.get()
              balance_amount =bl1.get()
              sql =""INSERT INTO Accounts(fname,
                                Iname,
                                DOB,
                                mobile_number,
                                email,
                                city,
                                pincode,
                                balance_amount,
                                password) values (%s,%s,%s,%s,%s,%s,%s,%s,%s)""
              values = (fname,lname,DOB
,mobile_number,email,city,pincode,balance_amount,passwd)
              mycursor.execute(sql,values)
              mydb.commit()
              opwin5()
```

```
b5 = Button(top3,text = "Register",font = 40,bg = '#80c1ff',command = new_account )
b5.place(relx = 0.1,rely = 0.93)

b4 = Button (window,text = "Sign Up",font = 40,bg = '#80c1ff', command = opwin4)
b4.place(relx = 0.1,rely = 0.73)

window.mainloop()
```

# OUTPUTS

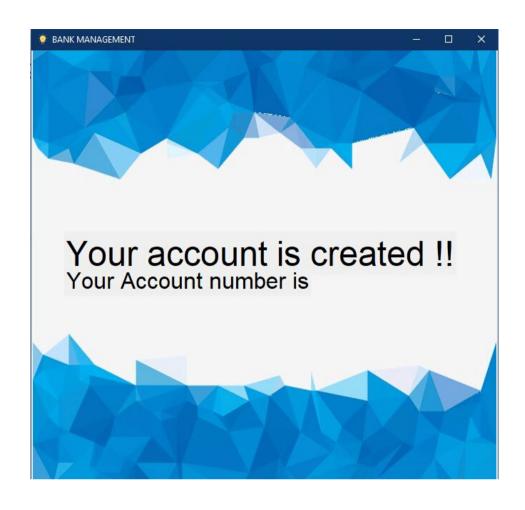
**Opening Page** 



#### Registration



#### Account created



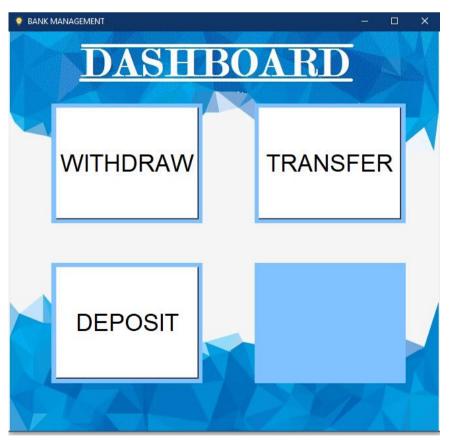
#### Data Added in Mysql

Accno	fname	lname DOB		Mob	ile_number	ema	il	City		PIN
00001     00002     00003     00004     00005	Ishan   Gopal Krishna     Isha   Rault   Gowanda   Jessi	Gautam   199   Singh   200   Jackson   200   Rana   199	02-01-19   05-03-16   04-03-23   00-06-06   05-08-06	9939 7247 8000 8920	7820320 9929709 7820495 0230110 0011123 9106551	gopa   isha   rjad   gowa	an8singh@gmail.com alkrishna519@gmail asingh@gmail.com ckson12@gmail.com arana@gmail.com siryder66@gmail.com	Noid	Delhi da Jersey bala	20: 11: 20: 7: 41:
	+ n set (0.00 sec)	+		+		+		+		
nysql> SE	ELECT * FROM acco	ounts;								
Accno	fname	lname	DOB		Mobile_nur	nber	email		City	
00001   00002   00003   00004   00005   00006	Ishan   Gopal Krishna   Isha   Rault   Gowanda   Jessi   Lal	Singh   Gautam   Singh   Jackson   Rana   Ryder   Singh Chadda	2002-01   1995-03   2004-03   2000-06   1995-08   1991-01   1968-12	3-16 3-23 6-06 8-06 1-31	7247820326   9939929709   7247820499   8000230116   8920011123   7899106553   9110011202	9 5 9 3 1	ishan8singh@gmail.d   gopalkrishna519@gma   ishasingh@gmail.com   rjackson12@gmail.com   gowarana@gmail.com   jessiryder66@gmail.d	ail   m   om	Noida New Del Noida New Jer kampala Pune Amritsa	rsey

#### Login



#### After signing in, dashboard



#### Withdraw



In Mysql, money has been withdrawn

200	lname	DOB	Mobile_number	email	City	PINCODE	Balance_amount
100	Singh	2002-01-19	7247820320	ishan8singh@gmail.com	Noida	201301	10000000
na	Gautam	1995-03-16	9939929709	gopalkrishna519@gmail	New Delhi	110068	50000000
	Singh	2004-03-23	7247820495	ishasingh@gmail.com	Noida	201301	3000000
	Jackson	2000-06-06	8000230110	rjackson12@gmail.com	New Jersey	70011	4000
	Rana	1995-08-06	8920011123	gowarana@gmail.com	kampala	256	6000
	Ryder	1991-01-31	7899106551	jessiryder66@gmail.com	Pune	411001	78000
	Singh Chadda	1968-12-25	9110011202	lal25singh@yahoo	Amritsar	143001	19650
€C)							
acco	ounts;						
15.5	lname	DOB	Mobile_number	email	City	PINCODE	Balance_amount
	Singh	2002-01-19	7247820320	ishan8singh@gmail.com	Noida	201301	10000000
na	Gautam	1995-03-16	9939929709	gopalkrishna519@gmail	New Delhi	110068	50000000
	Singh	2004-03-23	7247820495	ishasingh@gmail.com	Noida	201301	3000000
	Jackson	2000-06-06	8000230110	rjackson12@gmail.com	New Jersey	70011	4000
	Rana	1995-08-06	8920011123	gowarana@gmail.com	kampala	256	5500
	Ryder	1991-01-31	7899106551	jessiryder66@gmail.com	Pune	411001	78000
	Singh Chadda	1968-12-25	9110011202	lal25singh@yahoo	Amritsar	143001	19650
		+	+	+	+	+	++-
€C)							

#### Deposit

accounts;



Money has been deposited in Mysql database

	lname	DOB	Mobile_number	email	City	PINCODE	Balance_amount
та	Singh Gautam Singh Jackson Rana Ryder Singh Chadda	2002-01-19   1995-03-16   2004-03-23   2000-06-06   1995-08-06   1991-01-31   1968-12-25	7247820320   9939929709   7247820495   8000230110   8920011123   7899106551   9110011202	ishan8singh@gmail.com   gopalkrishna519@gmail   ishasingh@gmail.com   rjackson12@gmail.com   gowarana@gmail.com   jessiryder66@gmail.com   lal25singh@yahoo	Noida   New Delhi   Noida   New Jersey   kampala   Pune   Amritsar	201301   110068   201301   70011   256   411001   143001	10000000 50000000 3000000 4000 5500 78000 19650
) ( )	punts;						
	lname	DOB	Mobile_number	email	City	PINCODE	Balance_amount
ia	Singh Gautam Singh Jackson Rana Ryder Singh Chadda	2002-01-19   1995-03-16   2004-03-23   2000-06-06   1995-08-06   1991-01-31   1968-12-25	7247820320   9939929709   7247820495   8000230110   8920011123   7899106551	ishan8singh@gmail.com gopalkrishna519@gmail ishasingh@gmail.com rjackson12@gmail.com gowarana@gmail.com jessiryder66@gmail.com lal25singh@yahoo	Noida   New Delhi   Noida   New Jersey   kampala   Pune   Amritsar	201301   110068   201301   70011   256   411001   143001	10000000   50000000   3000000   4000   16000   78000   19650
ec)		+	<del> </del>	+	<del>+</del>	+	

#### Transferring money from one account to another



#### Money has been transferred from one account to another

ngh   2002-01-19   7247820320   ishan8singh@gmail.com   Noida   201301   10000000   10000000   10000000000	ame						
utam     1995-03-16     9939929709     gopalkrishna519@gmail     New Delhi     110068     50000000       ngh     2004-03-23     7247820495     ishasingh@gmail.com     Noida     201301     3000000       ckson     2000-06-06     8000230110     rjackson12@gmail.com     New Jersey     70011     4000       na     1995-08-06     8920011123     gowarana@gmail.com     kampala     256     16000       der     1991-01-31     7899106551     jessiryder66@gmail.com     Pune     411001     78000       ngh     1968-12-25     9110011202     lal25singh@yahoo     Amritsar     143001     19650       5;       ame     DOB     Mobile_number     email     City     PINCODE     Balance_amount       ngh     2002-01-19     7247820320     ishan8singh@gmail.com     Noida     201301     10000000       utam     1995-03-16     9939929709     gopalkrishna519@gmail     New Delhi     110068     50000000       ngh     2004-03-23     7247820495     ishasingh@gmail.com     Noida     201301     3000000       ckson     2000-06-06     8000230110     rjackson12@gmail.com     New Jersey     70011     10000	THE SECOND	DOB	Mobile_number	email	City	PINCODE	Balance_amount
ngh       2004-03-23       7247820495       ishasingh@gmail.com       Noida       201301       3000000         ckson       2000-06-06       8000230110       rjackson12@gmail.com       New Jersey       70011       4000         na       1995-08-06       8920011123       gowarana@gmail.com       kampala       256       16000         der       1991-01-31       7899106551       jessiryder66@gmail.com       Pune       411001       78000         ngh       Chadda       1968-12-25       9110011202       lal25singh@yahoo       Amritsar       143001       19650         5;       ame       DOB       Mobile_number       email       City       PINCODE       Balance_amount         ngh       2002-01-19       7247820320       ishan8singh@gmail.com       Noida       201301       10000000         utam       1995-03-16       9939929709       gopalkrishna519@gmail       New Delhi       110068       50000000         ngh       2004-03-23       7247820495       ishasingh@gmail.com       Noida       201301       3000000         ckson       2000-06-06       8000230110       rjackson12@gmail.com       New Jersey       70011       10000							10000000
ckson       2000-06-06       8000230110       rjackson12@gmail.com       New Jersey       70011       4000         na       1995-08-06       8920011123       gowarana@gmail.com       kampala       256       16000         der       1991-01-31       7899106551       jessiryder66@gmail.com       Pune       411001       78000         ngh Chadda       1968-12-25       9110011202       lal25singh@yahoo       Amritsar       143001       19650         5;       ame       DOB       Mobile_number       email       City       PINCODE       Balance_amount         ngh       2002-01-19       7247820320       ishan8singh@gmail.com       Noida       201301       10000000         utam       1995-03-16       9939929709       gopalkrishna519@gmail       New Delhi       110068       50000000         ngh       2004-03-23       7247820495       ishasingh@gmail.com       Noida       201301       3000000         ckson       2000-06-06       8000230110       rjackson12@gmail.com       New Jersey       70011       10000							
na       1995-08-06       8920011123       gowarana@gmail.com       kampala       256       16000         der       1991-01-31       7899106551       jessiryder66@gmail.com       Pune       411001       78000         ngh Chadda       1968-12-25       9110011202       lal25singh@yahoo       Amritsar       143001       19650         5;       ame       DOB       Mobile_number       email       City       PINCODE       Balance_amount         ngh       2002-01-19       7247820320       ishan8singh@gmail.com       Noida       201301       10000000         utam       1995-03-16       9939929709       gopalkrishna519@gmail       New Delhi       110068       50000000         ngh       2004-03-23       7247820495       ishasingh@gmail.com       Noida       201301       3000000         ckson       2000-06-06       8000230110       rjackson12@gmail.com       New Jersey       70011       10000	ngh				Noida	201301	and the same of th
der       1991-01-31       7899106551       jessiryder66@gmail.com       Pune       411001       78000         ngh Chadda       1968-12-25       9110011202       lal25singh@yahoo       Amritsar       143001       19650         5;       ame       DOB       Mobile_number       email       City       PINCODE       Balance_amount         ngh       2002-01-19       7247820320       ishan8singh@gmail.com       Noida       201301       10000000         utam       1995-03-16       9939929709       gopalkrishna519@gmail       New Delhi       110068       50000000         ngh       2004-03-23       7247820495       ishasingh@gmail.com       Noida       201301       3000000         ckson       2000-06-06       8000230110       rjackson12@gmail.com       New Jersey       70011       100000	ckson	2000-06-06	8000230110	rjackson12@gmail.com	New Jersey	70011	4000
ngh Chadda   1968-12-25   9110011202   lal25singh@yahoo   Amritsar   143001   19650	na	1995-08-06	8920011123	gowarana@gmail.com	kampala	256	16000
5; ame   DOB   Mobile_number   email   City   PINCODE   Balance_amount  ngh   2002-01-19   7247820320   ishan8singh@gmail.com   Noida   201301   10000000  utam   1995-03-16   9939929709   gopalkrishna519@gmail   New Delhi   110068   50000000  ngh   2004-03-23   7247820495   ishasingh@gmail.com   Noida   201301   3000000  ckson   2000-06-06   8000230110   rjackson12@gmail.com   New Jersey   70011   10000	der	1991-01-31	7899106551	jessiryder66@gmail.com	Pune	411001	78000
ngh   2002-01-19   7247820320   ishan8singh@gmail.com   Noida   201301   10000000 utam   1995-03-16   9939929709   gopalkrishna519@gmail   New Delhi   110068   50000000 ngh   2004-03-23   7247820495   ishasingh@gmail.com   Noida   201301   3000000 ckson   2000-06-06   8000230110   rjackson12@gmail.com   New Jersey   70011   10000	ngh Chadda	1968-12-25	9110011202	lal25singh@yahoo	Amritsar	143001	19650
ngh   2002-01-19   7247820320   ishan8singh@gmail.com   Noida   201301   10000000 utam   1995-03-16   9939929709   gopalkrishna519@gmail   New Delhi   110068   50000000 ngh   2004-03-23   7247820495   ishasingh@gmail.com   Noida   201301   3000000 ckson   2000-06-06   8000230110   rjackson12@gmail.com   New Jersey   70011   100000							
utam   1995-03-16   9939929709   gopalkrishna519@gmail   New Delhi   110068   50000000 ngh   2004-03-23   7247820495   ishasingh@gmail.com   Noida   201301   30000000 ckson   2000-06-06   8000230110   rjackson12@gmail.com   New Jersey   70011   10000	5;						<u> </u>
utam   1995-03-16   9939929709   gopalkrishna519@gmail   New Delhi   110068   50000000 ngh   2004-03-23   7247820495   ishasingh@gmail.com   Noida   201301   30000000 ckson   2000-06-06   8000230110   rjackson12@gmail.com   New Jersey   70011   10000		+   DOB	+   Mobile_number	+   email	+   City	PINCODE	Balance_amount
ckson   2000-06-06   8000230110   rjackson12@gmail.com   New Jersey   70011   10000	ame		<del></del>	+	+		Balance_amount
ckson   2000-06-06   8000230110   rjackson12@gmail.com   New Jersey   70011   10000	ame ngh	2002-01-19	- +   7247820320	+   ishan8singh@gmail.com	+   Noida	201301	+
na   1995-08-06   8920011123   gowarana@gmail.com   kampala   256   10000	ame  ngh utam	2002-01-19 1995-03-16	-   7247820320   9939929709	+   ishan8singh@gmail.com   gopalkrishna519@gmail	+   Noida   New Delhi	201301 110068	10000000
	ame  ngh utam ngh	2002-01-19 1995-03-16 2004-03-23	+	   ishan8singh@gmail.com   gopalkrishna519@gmail   ishasingh@gmail.com	Noida   New Delhi   Noida	201301   201301   110068   201301	10000000     50000000
	ame ngh utam ngh ckson	2002-01-19 1995-03-16 2004-03-23 2000-06-06	+	ishan8singh@gmail.com   ishan8singh@gmail.com   gopalkrishna519@gmail   ishasingh@gmail.com   rjackson12@gmail.com	Noida   New Delhi   Noida	201301   110068   201301   70011	10000000     10000000     50000000     3000000
	ame ngh utam ngh ckson	2002-01-19 1995-03-16 2004-03-23 2000-06-06 1995-08-06	7247820320   7247820320   9939929709   7247820495   8000230110   8920011123	ishan8singh@gmail.com   ishan8singh@gmail.com   ishasingh@gmail.com   rjackson12@gmail.com   gowarana@gmail.com	Noida   Noida   New Delhi   Noida   New Jersey   kampala	201301   110068   201301   70011   256	10000000   50000000   3000000
	ame ngh utam ngh ckson na der	2002-01-19 1995-03-16 2004-03-23 2000-06-06 1995-08-06	7247820320   7247820320   9939929709   7247820495   8000230110   8920011123   7899106551	ishan8singh@gmail.com   gopalkrishna519@gmail   ishasingh@gmail.com   rjackson12@gmail.com   gowarana@gmail.com   jessiryder66@gmail.com	Noida   New Delhi   Noida   New Jersey   kampala   Pune	201301   110068   201301   70011   256   411001	10000000   50000000   3000000   10000

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