#OM NAMAHSHYA SHIVAYA

from tkinter import\*

from tkinter import ttk

import tkinter.messagebox

class atm:

def \_\_init\_\_(self,root):

self.root = root

blank\_space = " "

self.root.title(120 \* blank\_space + "ATM GUI System")

self.root.geometry("1045x750+400+0")

self.root.configure(background ='cyan')

self.balance = 1000

self.pin = 1500

self.change = str ("4266")

MainFrame = Frame(self.root, bd = 30 , width = 800, height = 800, background = 'purple', relief = GROOVE)

MainFrame.grid()

TopFrame1 = Frame(MainFrame, bd = 7 , width = 720, height = 400, background = 'purple', relief = GROOVE)

TopFrame1.grid(row = 1, column = 0 ,padx = 10)

TopFrame2 = Frame(MainFrame, bd = 7 , width = 720, height = 400, background = 'purple', relief = RIDGE)

TopFrame2.grid(row = 0, column = 0 ,padx = 10)

TopFrame2Left = Frame(TopFrame2, bd = 10 , width = 170, height = 250, background = 'darkblue', relief = RIDGE)

TopFrame2Left.grid(row = 0, column = 0 ,padx = 10)

TopFrame2Mid = Frame(TopFrame2, bd = 25 , width = 250, height = 250, background = 'cyan', relief = RIDGE)

TopFrame2Mid.grid(row = 0, column = 1 ,padx = 1)

TopFrame2Right = Frame(TopFrame2, bd = 10 , width = 170, height = 250, background = 'darkblue', relief = RIDGE)

TopFrame2Right.grid(row = 0, column = 2 ,padx = 10)

#==============================================Functions=====================================================================

def enter\_pin1():

self.txtReceipt.delete("1.0",END)

self.txtReceipt.insert(END,"\n---------------------------------ENTER PIN----------------------------------\n\n")

self.btn12 = Button(TopFrame1, width = 160, height = 50, state = NORMAL,command = enter\_pin2,

image =self.image10).grid(row = 4, column = 3, padx = 2, pady = 2)

def upi1():

self.txtReceipt.delete("1.0",END)

self.txtReceipt.insert(END,"Enter phone no.\n")

self.btn12 = Button(TopFrame1, width = 160, height = 50, state = NORMAL,command = upi2,

image =self.image10).grid(row = 4, column = 3, padx = 2, pady = 2)

def system():

self.txtReceipt.insert(END,"\t\tWELCOME\t\t"+"\n\n")

self.txtReceipt.insert(END,"\tPresented by Group 7 members\t"+"\n\n")

self.txtReceipt.insert(END," NAMES"+"\t\t\t UID\n")

self.txtReceipt.insert(END," AKASH "+"\t\t\t20BCS7377\n")

self.txtReceipt.insert(END," OM ANIL GONADE"+"\t\t\t20BCS5975\n")

self.txtReceipt.insert(END," SAKSHAM VATS"+"\t\t\t20BCS7370\n")

self.txtReceipt.insert(END," SOHAM KR MODI"+"\t\t\t20BCS7352\n")

self.txtReceipt.insert(END," AYUSH KUMAR RAI"+"\t\t\t20BCS7391\n")

self.txtReceipt.insert(END," MOHIT SHARMA"+"\t\t\t20BCS7350\n")

self.txtReceipt.insert(END," MAYANK PRAKASH"+"\t\t\t20BCS73\n")

def clear():

self.txtReceipt.delete("1.0",END)

def enter\_pin2():

pinNo = self.txtReceipt.get("4.0","end-1c")

if((pinNo == str("1234")) or (pinNo == str("2456")) or (pinNo == str("5432")or (pinNo == self.change))) :

self.txtReceipt.delete("1.0",END)

self.txtReceipt.insert(END,"\nWITHDRAW\t\t"+"\t\t BALANCE ENQUIRY\n\n\n\n\n")

self.txtReceipt.insert(END," DEPOSIT"+"\t\t\t\t PRINT STATEMENT\n\n\n\n\n")

self.txtReceipt.insert(END," TRANSFER "+"\t\t\t\t\t PIN CHANGE\n\n\n\n\n")

self.txtReceipt.insert(END," BANKING"+"\t\t\t CARDLESS TRANSACTION\n\n\n\n")

self.btnlArrow1 = Button(TopFrame2Left, width = 160, height = 40, state = NORMAL,command = withdraw1,

image =self.image\_arrow\_Left).grid(row = 0, column = 0, padx = 2, pady = 2)

self.btnlArrow2 = Button(TopFrame2Left, width = 160, height = 40, state = NORMAL,command = deposit1,

image =self.image\_arrow\_Left).grid(row = 1, column = 0, padx = 2, pady = 2)

self.btnlArrow3 = Button(TopFrame2Left, width = 160, height = 40, state = NORMAL,

image =self.image\_arrow\_Left).grid(row = 2, column = 0, padx = 2, pady = 2)

self.btnlArrow4 = Button(TopFrame2Left, width = 160, height = 40, state = NORMAL,command = banking,

image =self.image\_arrow\_Left).grid(row = 3, column = 0, padx = 2, pady = 2)

self.btnrArrow1 = Button(TopFrame2Right, width = 160, height = 40, state = NORMAL,command = Balance,

image =self.image\_arrow\_Right).grid(row = 0, column = 0, padx = 2, pady = 2)

self.btnrArrow2 = Button(TopFrame2Right, width = 160, height = 40, state = NORMAL,

image =self.image\_arrow\_Right).grid(row = 1, column = 0, padx = 2, pady = 2)

self.btnrArrow3 = Button(TopFrame2Right, width = 160, height = 40, state = NORMAL,

image =self.image\_arrow\_Right).grid(row = 2, column = 0, padx = 2, pady = 2)

self.btnrArrow4 = Button(TopFrame2Right, width = 160, height = 40, state = NORMAL,command = upi1,

image =self.image\_arrow\_Right).grid(row = 3, column = 0, padx = 2, pady = 2)

else :

self.txtReceipt.delete("1.0",END)

self.txtReceipt.insert(END,"--------------------------------WRONG PIN---------------------------------\nPRESS ENTER ")

self.btn12 = Button(TopFrame1, width = 160, height = 50, state = NORMAL,command = enter\_pin1,

image =self.image10).grid(row = 4, column = 3, padx = 2, pady = 2)

#=========================================Withdraw function===================================

def withdraw1():

self.txtReceipt.delete("1.0",END)

self.txtReceipt.insert(END,"\n----------------------------ENTER AMOUNT------------------------------\n")

self.btn12 = Button(TopFrame1, width = 160, height = 50, state = NORMAL,command = withdraw2,

image =self.image10).grid(row = 4, column = 3, padx = 2, pady = 2)

def withdraw2():

amount = int(self.txtReceipt.get("3.0","end-1c"))

self.txtReceipt.delete("1.0",END)

self.balance = self.balance - amount

self.txtReceipt.insert(END,"\n----------------------------------------------------------------------------------")

self.txtReceipt.insert(END,"\n\_\_\_\_\_YOUR TRANSACTION IS COMPLETE\_\_\_\n")

self.txtReceipt.insert(END,"\n\_\_\_\_\_THANK YOU FOR USING ATM\_\_\_\_\_\n")

self.txtReceipt.insert(END,"\nAVAILABLE BALANCE = ")

self.txtReceipt.insert(END,self.balance)

self.txtReceipt.insert(END,"\n----------------------------------------------------------------------------------")

self.txtReceipt.insert(END,"\n\n\t\t\t DO YOU WANT RECEIPT\n\n\n\t\t\tYES\n\n\n\n\t\t\tNO")

self.btnrArrow3 = Button(TopFrame2Right, width = 225, height = 70, state = NORMAL,command = withdraw3,

image =self.image\_arrow\_Right).grid(row = 2, column = 0, padx = 1, pady = 2)

self.btnrArrow4 = Button(TopFrame2Right, width = 225, height = 70, state = NORMAL,command = delete,

image =self.image\_arrow\_Right).grid(row = 3, column = 0, padx = 2, pady = 2)

def withdraw3():

text = self.txtReceipt.get("1.0","end-40c")

f = open ("abc.txt","a")

f.write(text)

f.close()

self.txtReceipt.delete("6.0",END)

#===========================================Balance==========================================

def Balance():

self.txtReceipt.delete("1.0",END)

self.txtReceipt.insert(END,"Available Balance: ")

self.txtReceipt.insert(END,self.balance)

#============================================Deposit==========================================

def deposit1():

self.txtReceipt.delete("1.0",END)

self.txtReceipt.insert(END,"\n------------------------------ENTER AMOUNT------------------------------\n")

self.btn12 = Button(TopFrame1, width = 160, height = 50, state = NORMAL,command = deposit2,

image =self.image10).grid(row = 4, column = 3, padx = 2, pady = 2)

def deposit2():

amount = int(self.txtReceipt.get("3.0","end-1c"))

self.txtReceipt.delete("1.0",END)

self.balance = self.balance + amount

self.txtReceipt.insert(END,"\n----------------------------------------------------------------------------------")

self.txtReceipt.insert(END,"\n\_\_\_\_\_YOUR TRANSACTION IS COMPLETE\_\_\_\n")

self.txtReceipt.insert(END,"\n\_\_\_\_\_THANK YOU FOR USING ATM\_\_\_\_\_\n")

self.txtReceipt.insert(END,"\nAVAILABLE BALANCE = ")

self.txtReceipt.insert(END,self.balance)

self.txtReceipt.insert(END,"\n----------------------------------------------------------------------------------")

self.txtReceipt.insert(END,"\n\n\t\t\t DO YOU WANT RECEIPT\n\n\n\t\t\tYES\n\n\n\n\t\t\tNO")

self.txtReceipt.focus\_set()

def deposit3():

text = self.txtReceipt.get("1.0","end-40c")

f = open ("abc.txt","a")

f.write(text)

f.close()

self.txtReceipt.delete("6.0",END)

#===============================================Delete==========================================

def delete():

self.txtReceipt.delete("8.0",END)

#=============================================Print Statement=====================================

def print\_statement():

self.txtReceipt.delete("1.0",END)

self.txtReceipt.focus\_set()

def pata\_nhi():

enter\_pin()

self.txtReceipt.delete("1.0",END)

self.txtReceipt.focus\_set()

#=========================================Pin Change============================================

def pin\_change1():

self.txtReceipt.delete("1.0",END)

self.txtReceipt.insert(END,"ENTER YOUR PREVIOUS PIN")

def banking():

self.txtReceipt.delete("1.0",END)

self.txtReceipt.insert(END,"NOT AVAILABLE UNDER CONSTRUCTION\n ")

self.txtReceipt.focus\_set()

#=================================Card less transaction==============================================

def upi1():

self.txtReceipt.delete("1.0",END)

self.txtReceipt.insert(END,"Enter phone no.\n")

self.btn12 = Button(TopFrame1, width = 160, height = 50, state = NORMAL,command = upi2,

image =self.image10).grid(row = 4, column = 3, padx = 2, pady = 2)

def upi2():

Upi\_id =self.txtReceipt.get("2.0","end-1c")

if (Upi\_id == str("9304292055")):

self.txtReceipt.delete("1.0",END)

self.txtReceipt.insert(END,"Enter password\n")

self.btn12 = Button(TopFrame1, width = 160, height = 50, state = NORMAL,command = upi3,

image =self.image10).grid(row = 4, column = 3, padx = 2, pady = 2)

self.txtReceipt.focus\_set()

else :

self.txtReceipt.delete("1.0",END)

self.txtReceipt.insert(END,"PHONE NO. DOESN'T MATCH\nPRESS ENTER")

upi1()

def upi3():

pas = self.txtReceipt.get("2.0","end-1c")

if((pas == str("1234"))) :

self.txtReceipt.delete("1.0",END)

self.txtReceipt.insert(END,"\n----------------------------ENTER AMOUNT------------------------------\n")

self.btn12 = Button(TopFrame1, width = 160, height = 50, state = NORMAL,command = upi4,

image =self.image10).grid(row = 4, column = 3, padx = 2, pady = 2)

else :

self.txtReceipt.delete("1.0",END)

self.txtReceipt.insert(END,"--------------------------------WRONG PIN---------------------------------\nPRESS ENTER ")

self.btn12 = Button(TopFrame1, width = 160, height = 50, state = NORMAL,command = enter\_pin1,

image =self.image10).grid(row = 4, column = 3, padx = 2, pady = 2)

def upi4():

amount = int(self.txtReceipt.get("3.0","end-1c"))

self.txtReceipt.delete("1.0",END)

self.pin = self.pin - amount

self.txtReceipt.insert(END,"\n----------------------------------------------------------------------------------")

self.txtReceipt.insert(END,"\n\_\_\_\_\_YOUR TRANSACTION IS COMPLETE\_\_\_\n")

self.txtReceipt.insert(END,"\n\_\_\_\_\_THANK YOU FOR USING ATM\_\_\_\_\_\n")

self.txtReceipt.insert(END,"\nAVAILABLE BALANCE = ")

self.txtReceipt.insert(END,self.pin)

self.txtReceipt.insert(END,"\n----------------------------------------------------------------------------------")

self.txtReceipt.insert(END,"\n\n\t\t\t DO YOU WANT RECEIPT\n\n\n\t\t\tYES\n\n\n\n\t\t\tNO")

self.btnlArrow1 = Button(TopFrame2Left, width = 160, height = 40, state = NORMAL,command = enter\_pin1,

image =self.image\_arrow\_Left).grid(row = 0, column = 0, padx = 2, pady = 2)

def upi5():

text = self.txtReceipt.get("1.0","end-40c")

f = open ("abc.txt","a")

f.write(text)

f.close()

self.txtReceipt.delete("6.0",END)

#============================================Button fuction==========================================

def insert0():

value0 = 0

self.txtReceipt.insert(END,value0)

def insert1():

value1 = 1

self.txtReceipt.insert(END,value1)

def insert2():

value2 = 2

self.txtReceipt.insert(END,value2)

def insert3():

value3 = 3

self.txtReceipt.insert(END,value3)

def insert4():

value4 = 4

self.txtReceipt.insert(END,value4)

def insert5():

value5 = 5

self.txtReceipt.insert(END,value5)

def insert6():

value6 = 6

self.txtReceipt.insert(END,value6)

def insert7():

value7 = 7

self.txtReceipt.insert(END,value7)

def insert8():

value8 = 8

self.txtReceipt.insert(END,value8)

def insert9():

value9 = 9

self.txtReceipt.insert(END,value9)

def insertCE():

Cancel = tkinter.messagebox.askyesno("ATM","Confirm if you want to exit")

if Cancel > 0 :

self.root.destroy()

return

#======================================Widgets================================================================================

self.txtReceipt = Text(TopFrame2Mid, height = 18, width = 55, bd = 10, font = ('Times New Roman' ,9, 'bold'),background = 'lightblue')

self.txtReceipt.grid(row = 0, column = 0)

self.image\_arrow\_Left = PhotoImage(file = "C:/Users/mayank prakash/OneDrive/Desktop/ATM project/ATM\_Icon/lArrow.png")

self.btnlArrow1 = Button(TopFrame2Left, width = 225, height = 70, state = DISABLED,

image =self.image\_arrow\_Left).grid(row = 0, column = 0, padx = 1, pady = 2)

self.btnlArrow2 = Button(TopFrame2Left, width = 225, height = 70, state = DISABLED,

image =self.image\_arrow\_Left).grid(row = 1, column = 0, padx = 1, pady = 2)

self.btnlArrow3 = Button(TopFrame2Left, width = 225, height = 70, state =DISABLED,

image =self.image\_arrow\_Left).grid(row = 2, column = 0, padx = 1, pady = 2)

self.btnlArrow4 = Button(TopFrame2Left, width = 225, height = 70, state =DISABLED,

image =self.image\_arrow\_Left).grid(row = 3, column = 0, padx = 1, pady = 2)

#==============================================================================================================================

self.image\_arrow\_Right = PhotoImage(file = "C:/Users/mayank prakash/OneDrive/Desktop/ATM project/ATM\_Icon/rArrow.png")

self.btnrArrow1 = Button(TopFrame2Right, width = 225, height = 70, state = DISABLED,

image =self.image\_arrow\_Right).grid(row = 0, column = 0, padx = 1, pady = 2)

self.btnrArrow2 = Button(TopFrame2Right, width = 225, height = 70, state = DISABLED,

image =self.image\_arrow\_Right).grid(row = 1, column = 0, padx = 1, pady = 2)

self.btnrArrow3 = Button(TopFrame2Right, width = 225, height = 70, state = DISABLED,

image =self.image\_arrow\_Right).grid(row = 2, column = 0, padx = 1, pady = 2)

self.btnrArrow4 = Button(TopFrame2Right, width = 225, height = 70, state = DISABLED,

image =self.image\_arrow\_Right).grid(row = 3, column = 0, padx = 2, pady = 2)

#=================================================PIN NUMBER BUTTONS================================================================

self.image1 = PhotoImage(file = "C:/Users/mayank prakash/OneDrive/Desktop/ATM project/ATM\_Icon/one.png")

self.btn1 = Button(TopFrame1, width = 225, height = 70, state = NORMAL,command = insert1,

image =self.image1).grid(row = 2, column = 0, padx =2, pady = 2)

self.image2 = PhotoImage(file = "C:/Users/mayank prakash/OneDrive/Desktop/ATM project/ATM\_Icon/two.png")

self.btn2 = Button(TopFrame1, width = 225, height = 70, state = NORMAL,command = insert2,

image =self.image2).grid(row = 2, column = 1, padx = 2, pady = 2)

self.image3 = PhotoImage(file = "C:/Users/mayank prakash/OneDrive/Desktop/ATM project/ATM\_Icon/three.png")

self.btn3 = Button(TopFrame1, width = 225, height = 70, state = NORMAL,command = insert3,

image =self.image3).grid(row = 2, column = 2, padx = 2, pady = 2)

self.imageCE = PhotoImage(file = "C:/Users/mayank prakash/OneDrive/Desktop/ATM project/ATM\_Icon/cancel.png")

self.btn4 = Button(TopFrame1, width = 225, height = 70, state = NORMAL,command = insertCE,

image =self.imageCE).grid(row = 2, column = 3, padx = 2, pady = 2)

#===================================================================================================================================

self.image4 = PhotoImage(file = "C:/Users/mayank prakash/OneDrive/Desktop/ATM project/ATM\_Icon/four.png")

self.btn5 = Button(TopFrame1, width = 225, height = 70, state = NORMAL,command = insert4,

image =self.image4).grid(row = 3, column = 0, padx = 2, pady = 2)

self.image5 = PhotoImage(file = "C:/Users/mayank prakash/OneDrive/Desktop/ATM project/ATM\_Icon/five.png")

self.btn6 = Button(TopFrame1, width = 225, height = 70, state = NORMAL,command = insert5,

image =self.image5).grid(row = 3, column = 1, padx = 2, pady = 2)

self.image6 = PhotoImage(file = "C:/Users/mayank prakash/OneDrive/Desktop/ATM project/ATM\_Icon/six.png")

self.btn7 = Button(TopFrame1, width = 225, height = 70, state = NORMAL,command = insert6,

image =self.image6).grid(row = 3, column = 2, padx = 2, pady = 2)

self.imagecl = PhotoImage(file = "C:/Users/mayank prakash/OneDrive/Desktop/ATM project/ATM\_Icon/clear.png")

self.btn8 = Button(TopFrame1, width = 225, height = 70, state = NORMAL,command = clear,

image =self.imagecl).grid(row = 3, column = 3, padx = 2, pady = 2)

#=====================================================PIN number buttons=============================================================

self.image7 = PhotoImage(file = "C:/Users/mayank prakash/OneDrive/Desktop/ATM project/ATM\_Icon/seven.png")

self.btn9 = Button(TopFrame1, width = 225, height = 70, state = NORMAL,command = insert7,

image =self.image7).grid(row = 4, column = 0, padx = 2, pady = 2)

self.image8 = PhotoImage(file = "C:/Users/mayank prakash/OneDrive/Desktop/ATM project/ATM\_Icon/eight.png")

self.btn10 = Button(TopFrame1, width = 225, height = 70, state = NORMAL,command = insert8,

image =self.image8).grid(row = 4, column = 1, padx = 2, pady = 2)

self.image9 = PhotoImage(file = "C:/Users/mayank prakash/OneDrive/Desktop/ATM project/ATM\_Icon/nine.png")

self.btn11 = Button(TopFrame1, width = 225, height = 70, state = NORMAL,command = insert9,

image =self.image9).grid(row = 4, column = 2, padx = 2, pady = 2)

self.image10 = PhotoImage(file = "C:/Users/mayank prakash/OneDrive/Desktop/ATM project/ATM\_Icon/enter.png")

self.btn12 = Button(TopFrame1, width = 225, height = 70, state = NORMAL,command = enter\_pin1,

image =self.image10).grid(row = 4, column = 3, padx = 2, pady = 2)

#==================================================PIN NUMBER BUTTONS==================================================================

self.imageSp1 = PhotoImage(file = "C:/Users/mayank prakash/OneDrive/Desktop/ATM project/ATM\_Icon/empty.png")

self.btnSp1 = Button(TopFrame1, width = 225, height = 70, state = NORMAL,

image =self.imageSp1).grid(row = 5, column = 0, padx = 2, pady = 2)

self.image0 = PhotoImage(file = "C:/Users/mayank prakash/OneDrive/Desktop/ATM project/ATM\_Icon/zero.png")

self.btn0 = Button(TopFrame1, width = 225, height = 70, state = NORMAL,command = insert0,

image =self.image0).grid(row = 5, column = 1, padx = 2, pady = 2)

self.imageSp2 = PhotoImage(file = "C:/Users/mayank prakash/OneDrive/Desktop/ATM project/ATM\_Icon/empty.png")

self.btnSp2 = Button(TopFrame1, width = 225, height = 70, state = NORMAL,

image =self.imageSp2).grid(row = 5, column = 2, padx = 2, pady = 2)

self.imageSp3 = PhotoImage(file = "C:/Users/mayank prakash/OneDrive/Desktop/ATM project/ATM\_Icon/empty.png")

self.btnSp3 = Button(TopFrame1, width = 225, height = 70, state = NORMAL,command = system,

image =self.imageSp3).grid(row = 5, column = 3, padx = 2, pady = 2)

if \_\_name\_\_=='\_\_main\_\_':

root = Tk()

application = atm(root)

root.mainloop()