#ENGINEERING EXPLORATION PROJECT BATCH 5 TKINTER APPLICATION\_ RAPPEL(LIBRARY BOOK REMINDER)\_\_\_\_\_Frontend

#importing the required modules

from platform import win32\_edition

import tkinter as tk

from tkinter import Entry, Frame, Label, Listbox, PhotoImage, Scale, Scrollbar, StringVar, Text, ttk

from tkinter import messagebox

from tkinter.constants import BOTH, END, N, RIDGE

from PIL import Image,ImageTk

import final\_backend\_done       #To import the functions in the backend\_done

#declaring the required global variables

details=[]

button\_std=''

std=''

std\_img\_address="scan\_img.jpg"

window\_1=''

window\_2=''

window\_3=''

addmission\_number=0

g\_t\_date\_text=1

g\_t\_month\_text=7

g\_t\_year\_text=2021

#\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Loginpage\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

def LoginPage(event):

    global window\_1

    window\_1=tk.Toplevel()

    window\_1.title("Login Page\_RAPPEL\_ver1.0")

    window\_1.iconbitmap("icon.ico")

    window\_1.geometry("1550x785")

    load=Image.open("pic\_16.jpg")

    load=load.resize((1550,790))

    photo=ImageTk.PhotoImage(load)

    label=tk.Label(window\_1,image=photo)

    label.image=photo

    label.place(x=0,y=0)

    E1=tk.Entry(window\_1,width=40,bd=5,font=("Arial Bold",12))

    E1.place(x=608,y=486,height=35)

    E2=tk.Entry(window\_1,width=33,show='\*',bd=5,font=("Arial Bold",15))

    E2.place(x=608,y=560,height=35)

    def verify():            #To verify whether the username and password matched with the details in the database

        try:

            with open("credential.txt","r") as f:

                info=f.readlines()

                i=0

                for e in info:

                    u, p = e.split(",")

                    if u.strip()==E1.get() and p.strip()==E2.get():

                        MainPage()             #Opens the main page if the login is successful

                        window\_1.destroy

                        i=1

                        break

                if i==0:

                    messagebox.showinfo("Error","Please provide correct username and password!!")

        except:

            print("In except block")

            messagebox.showinfo("Error","Please provide correct username and password!!")

    button=tk.Button(window\_1,text="Submit",bd=0,width=9,font=("Arial Bold",11),bg="DarkGoldenrod1",command=verify)

    button.place(x=712,y=618)

    window\_1.state('zoomed')

    window\_1.mainloop()

#\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ScanPage\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#To scan the student id card and get the student details

def ScanPage():

    global window\_2,window\_3

    window\_2=tk.Toplevel()  #Tk() is a class and window is the object

    window\_2.wm\_title("Scan\_Page\_ver\_0.5")

    window\_2.iconbitmap('icon.ico')

    window\_2.geometry("1550x785")

    window\_2.configure(bg="DodgerBlue4")

    font=('Arial Bold',8)

    def scan\_command():

        global addmission\_number,window\_2,window\_3

        window\_3.destroy()

        addmission\_number=final\_backend\_done.scan()

        window\_2.destroy()

        MainPage()

    load=Image.open("scan\_img.jpg")

    load=load.resize((600,500))

    photo=ImageTk.PhotoImage(load)

    label=tk.Label(window\_2,image=photo)

    label.image=photo

    label.place(x=200,y=150)

    b11=tk.Button(window\_2,text="Scan",bd=10,bg="orange",font=("Arial Bold",15),width=20,command=scan\_command)

    b11.place(x=900,y=340)

    b11=tk.Button(window\_2,text="Skip",bd=10,bg="orange",font=("Arial Bold",15),width=20,command=MainPage)

    b11.place(x=900,y=440)

    la=tk.Label(window\_2,fg="snow",text="STUDENT ID CARD SCAN WINDOW ",bd=5,bg="DodgerBlue4",font=("Elephant",30))

    la.place(x=300,y=10)

    window\_2.state('zoomed')

    window\_2.mainloop()

#\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*MainPage\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#HOME PAGE OF THE APPLICATION

def MainPage():

    global window\_1,window\_3

    window\_1.destroy()

    window\_3=tk.Toplevel()

    window\_3.wm\_title("RAPPEL\_Main Page\_ver\_1.0")  #To set the title for the window

    window\_3.iconbitmap("icon.ico")        #To set an icon to the window

    window\_3.geometry("1550x785")              #To give the dimensions of the window

    window\_3.configure(bg="wheat1")        #To provide background colout

    font=('Arial Bold',12)

    font\_la=("Elephant",14)

    def get\_selected\_row(event):          #Function to print the deatils of selected book in corresponding feilds

        global selected\_tuple

        index=list1.curselection()[0]

        selected\_tuple=list1.get(index)

        e7.delete(0,END)

        e7.insert(END,selected\_tuple[1])

        e8.delete(0,END)

        e8.insert(END,selected\_tuple[2])

        e9.delete(0,END)

        e9.insert(END,selected\_tuple[3])

    def get\_selected\_row\_1(event):         #Function to print the deatils of selected student in corresponding feilds

        global selected\_tuple\_1

        index\_1=list2.curselection()[0]

        selected\_tuple\_1=list2.get(index\_1)

        e1.delete(0,END)

        e1.insert(END,selected\_tuple\_1[1])

        e2.delete(0,END)

        e2.insert(END,selected\_tuple\_1[2])

        e3.delete(0,END)

        e3.insert(END,selected\_tuple\_1[3])

        e4.delete(0,END)

        e4.insert(END,selected\_tuple\_1[4])

        e5.delete(0,END)

        e5.insert(END,selected\_tuple\_1[5])

        e6.delete(0,END)

        e6.insert(END,selected\_tuple\_1[6])

        find\_command(rollno\_text.get())

    def selected\_1():                      #Function to store the deatils of student , book issued and date of issue

        id\_no=list3.get(0)

        s\_name=studentname\_text.get()

        r\_no=rollno\_text.get()

        e\_mail=email\_text.get()

        add\_no=addmissionno\_text.get()

        branch=branch\_text.get()

        ph\_no=phonenumber\_text.get()

        b\_code=bookcode\_text.get()

        b\_name=bookname\_text.get()

        a\_name=author\_text.get()

        s\_date=t\_date\_text.get()

        s\_month=t\_month\_text.get()

        s\_year=t\_year\_text.get()

        if s\_name=='' or r\_no=='' or e\_mail=='' or add\_no=='' or branch=='' or ph\_no=='' or b\_code=='' or b\_name=='' or a\_name=='' or s\_date=='' or s\_month=='' or s\_year=='':

            response=messagebox.askyesno("Empty Field!!","Please fill all the required details\n Do you want to return to main page?")

            if response==1:

                window\_3.destroy()

                MainPage()

            print(response)

        else:

            final\_backend\_done.save\_details(id\_no,s\_name,r\_no,e\_mail,add\_no,branch,ph\_no,b\_code,b\_name,a\_name,s\_date,s\_month,s\_year)

            info\_box()

    def view\_command():                         #Function to call view function from backend and display all books details in list1

        list1.delete(0,END)

        for rows in final\_backend\_done.view():

            list1.insert(END,rows)

    def search\_command():                          #Function to call search function from backend and search for the required book and display all book details in list1

        list1.delete(0,END)

        for rows in final\_backend\_done.search(bookcode\_text.get(),bookname\_text.get(),author\_text.get()):

            list1.insert(END,rows)

    def insert\_command():                 #function to call insert function in backend and add new book details in list 1

        final\_backend\_done.insert(bookcode\_text.get(),bookname\_text.get(),author\_text.get())

        list1.delete(0,END)

        list1.insert(END,(bookcode\_text.get(),bookname\_text.get(),author\_text.get()))

        view\_command()

        info\_box()

    def enter\_command(event):                 #Function to save present day date, month, year

        final\_backend\_done.save\_date(t\_date\_text.get(),t\_month\_text.get(),t\_year\_text.get())

        global g\_t\_date\_text,g\_t\_month\_text,g\_t\_year\_text

        g\_t\_date\_text=t\_date.get()

        g\_t\_month\_text=t\_month.get()

        g\_t\_year\_text=t\_year\_text.get()

        info\_box()

    def delete\_command():                #Function to call delete function in backend and delete selected book details from list 1

        final\_backend\_done.delete(selected\_tuple[0])

        view\_command()

        info\_box()

    def update\_command():                #Function to call update function in backend and update the changes made in book details in list 1

        final\_backend\_done.update(selected\_tuple[0],bookcode\_text.get(),bookname\_text.get(),author\_text.get())

        info\_box()

    def look\_command():               #Function to call find command in backend and search for the student based on the addmission number

        global addmission\_number

        list2.delete(0,END)

        print(addmission\_number)

        for row in final\_backend\_done.find(studentname\_text.get(),rollno\_text.get(),email\_text.get(),addmission\_number,branch\_text.get(),phonenumber\_text.get()):

            list2.insert(END,row)

    def find\_student\_command():               #Function to call find command in backend and search for the student based on the addmission number

        list2.delete(0,END)

        for row in final\_backend\_done.find(studentname\_text.get(),rollno\_text.get(),email\_text.get(),addmissionno\_text.get(),branch\_text.get(),phonenumber\_text.get()):

            list2.insert(END,row)

    def add\_command():                 #Function to call add function in backend and add new student details in list 2

        final\_backend\_done.add(studentname\_text.get(),rollno\_text.get(),email\_text.get(),addmissionno\_text.get(),branch\_text.get(),phonenumber\_text.get())

        list2.delete(0,END)

        list2.insert(END,(studentname\_text.get(),rollno\_text.get(),email\_text.get(),addmissionno\_text.get(),branch\_text.get(),phonenumber\_text.get()))

        info\_box()

    def view\_command\_1():               #Function to call view\_1 function in backend and display all the students details in list2

        list2.delete(0,END)

        for row in final\_backend\_done.view\_1():

            list2.insert(END,row)

    def erase\_command():        #function to call erase function in backend to delete selected student details from list 2

        final\_backend\_done.erase(selected\_tuple\_1[0])

        view\_command\_1()

        info\_box()

    def update\_s\_command():      #function to call the update in backend and update the student details in list2

        final\_backend\_done.update\_s(selected\_tuple\_1[0],studentname\_text.get(),rollno\_text.get(),email\_text.get(),addmissionno\_text.get(),branch\_text.get(),phonenumber\_text.get())

        info\_box()

    def info\_command():        #New window to display information of the application

        window\_7=tk.Toplevel()

        window\_7.title("Developer Information Box\_RAPPLE\_ver\_1.0")

        window\_7.geometry("500x200")

        window\_7.configure(bg='coral')

        labe=Label(window\_7,bg="coral",font=("Elephant",12),text="RAPPEL is a Library Book Reminder.\n\nThis Application can be used by the Library Department,\n to send reminder,to the students who have taken a book from\n the Library.\n")

        labe.pack()

        window\_7.mainloop()

    def about\_command():       #New window to display information about the developers

        window\_8=tk.Toplevel()

        window\_8.title("About\_RAPPLE\_ver\_1.0")

        window\_8.geometry("500x200")

        window\_8.configure(bg='coral')

        labe=Label(window\_8,bg="coral",font=("Elephant",12),text="This is About Box")

        labe.pack()

        window\_8.mainloop()

    def help\_command():              #To open the help window

        window\_9=tk.Toplevel()

        window\_9.title("Help Desk\_RAPPLE\_ver\_1.0")

        window\_9.geometry("500x260")

        window\_9.configure(bg='floral white')

        img=Image.open("help\_img.jpg")

        img=img.resize((500,260))

        my= ImageTk.PhotoImage(img)

        label=Label(window\_9,image=my)

        label.place(x=0,y=0)

        window\_9.mainloop()

    def IssuedDetailsPage():             #To open the window that contails the details of the student and the books issued

        window\_4=tk.Toplevel()

        window\_4.title("Issued Book Details\_RAPPEL\_ver\_1.0")

        window\_4.geometry("1550x785")

        window\_4.iconbitmap("icon.ico")

        window\_4.configure(bg="NavajoWhite2")

        load=Image.open("pic\_3.jpg")

        load=load.resize((1550,785))

        photo=ImageTk.PhotoImage(load)

        label=tk.Label(window\_4,image=photo)

        label.image=photo

        label.place(x=0,y=0)

        def view\_command\_3():             #To view the details

            list3.delete(0,END)

            for row in final\_backend\_done.view\_3():

                list3.insert(END,row)

        def send\_email():              #To send the email to the required student

            global g\_t\_date\_text,g\_t\_month\_text,g\_t\_year\_text

            final\_backend\_done.send\_mail(g\_t\_date\_text,g\_t\_month\_text,g\_t\_year\_text)

            view\_command\_3()

            information\_box()

        def view\_details\_command():

            list3.delete(0,END)

            for row in final\_backend\_done.view\_3():

                list3.insert(END,row)

        l\_1=Label(window\_4,bg="gray99",text="Details of the Books Issued",font=("Elephant",20))

        l\_1.place(x=100,y=25)

        frame\_det=Frame(window\_4,bg="SkyBlue1",height=600,width=1000,bd=10,relief=RIDGE)

        frame\_det.place(x=50,y=75)

        list3=Listbox(window\_4,height=31,width=150)

        list3.place(x=80,y=105)

        sb3=Scrollbar(window\_4)

        sb3.place(x=990,y=105,height=500,width=30)

        list3.configure(yscrollcommand=sb3.set)

        sb3.configure(command=list3.yview)

        def information\_box():

            message=final\_backend\_done.Info\_func()

            Info.delete(1.0,END)

            Info.insert(tk.END,message)

        l16=Label(window\_4,text="Information box",font=("Elephant",13),bg='gray99')

        l16.place(x=650,y=15)

        Info=Text(window\_4,height=1,width=31,font=("Elephant",12),bd=10,relief=RIDGE)

        Info.place(x=650,y=35)

        b13=tk.Button(window\_4,bd=10,text="View",width=14,font=("Elephant",13),bg="dodger blue",command=view\_details\_command)

        b13.place(x=80,y=606)

        b13=tk.Button(window\_4,bd=10,text="Send Emails",width=15,font=("Elephant",13),bg="dodger blue",command=send\_email)

        b13.place(x=820,y=606)

        window\_4.state('zoomed')

        window\_4.mainloop()

    def register():       #To register new user

        window\_10=tk.Tk()

        window\_10.resizable(0,0)

        window\_10.configure(bg="deep sky blue")

        window\_10.iconbitmap("icon.ico")

        window\_10.title("Register")

        l1=tk.Label(window\_10,text="Username             :",font=('Arial bold',15),bg="deep sky blue")

        l1.place(x=10,y=10)

        t1=tk.Entry(window\_10,width=30,bd=5,font=('Arial bold',11))

        t1.place(x=200,y=10)

        l2=tk.Label(window\_10,text="Create Password  :",font=('Arial bold',15),bg="deep sky blue")

        l2.place(x=10,y=60)

        t2=tk.Entry(window\_10,width=30,bd=5,font=('Arial bold',11))

        t2.place(x=200,y=60)

        l3=tk.Label(window\_10,text="Confirm Password :",font=('Arial bold',15),bg="deep sky blue")

        l3.place(x=10,y=110)

        t3=tk.Entry(window\_10,width=30,bd=5,font=('Arial bold',11))

        t3.place(x=200,y=110)

        def  check():         #To check whether the password in both the fields is same or not

            if t1.get()!="" or t2.get()!="" or t3.get()!="":

                if t2.get()==t3.get():

                    with open("credential.txt","a") as f:

                        f.write(t1.get()+","+t2.get()+"\n")

                        messagebox.showinfo("Welcome","You are registered successfully!!")

                else:

                    messagebox.showinfo("Error","Your password didn't get matched!!")

            else:

                messagebox.showinfo("Error","Please fill the complete fields")

        b1=tk.Button(window\_10,text="Sign in",font=("arial",15),bd=5,bg='#ffc22a',command=check)

        b1.place(x=170,y=150)

        window\_10.geometry("470x220")

        window\_10.mainloop()

    book\_frame=Frame(window\_3,bg="DodgerBlue4",bd=10,relief=RIDGE)

    book\_frame.place(x=1250,y=340,width=200,height=180)

    img=Image.open("logo.png")                    #To add an image in the window

    img=img.resize((900,136))

    my= ImageTk.PhotoImage(img)

    label=Label(window\_3,image=my)

    label.place(x=10,y=0)

    img\_1=Image.open("owl.png")                  #To add an image in the window

    img\_1=img\_1.resize((270,230))

    my\_1= ImageTk.PhotoImage(img\_1)

    label\_1=Label(window\_3,image=my\_1)

    label\_1.place(x=460,y=560)

    img\_3=Image.open("library\_image.png")        #To add an image in the window

    img\_3=img\_3.resize((595,136))

    my\_3= ImageTk.PhotoImage(img\_3)

    label\_3=Label(window\_3,image=my\_3)

    label\_3.place(x=915,y=0)

    img\_2=Image.open("pic.png")           #To add an image in the window

    img\_2=img\_2.resize((250,220))

    my\_2= ImageTk.PhotoImage(img\_2)

    label\_2=Label(window\_3,image=my\_2)

    label\_2.place(x=750,y=560)

    img\_7=Image.open("book\_img.jpg")        #To add an image in the window

    img\_7=img\_7.resize((175,155))

    my\_7= ImageTk.PhotoImage(img\_7)

    label\_7=Label(book\_frame,image=my\_7)

    label\_7.place(x=0,y=0)

    Dataframe=Frame(window\_3,bd=15,relief=RIDGE,bg="orange")

    Dataframe.place(x=10,y=170,width=1500,height=160)

    #\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*To create labels and entry boxes to take input from user\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

    l1=Label(window\_3,bg="orange",text="Student Name",font=font\_la)

    l1.place(x=50,y=205)

    studentname\_text=StringVar()

    e1=Entry(window\_3,textvariable=studentname\_text,font=("Arial Bold",13))

    e1.place(x=250,y=200,width=250,height=30)

    l2=Label(window\_3,bg="orange",text="Roll Number",font=font\_la)

    l2.place(x=530,y=205)

    rollno\_text=StringVar()

    e2=Entry(window\_3,textvariable=rollno\_text,font=("Arial Bold",13))

    e2.place(x=670,y=200,width=300,height=30)

    l3=Label(window\_3,text="Email",bg="orange",font=font\_la)

    l3.place(x=1010,y=205)

    email\_text=StringVar()

    e3=Entry(window\_3,textvariable=email\_text,font=("Arial Bold",13))

    e3.place(x=1200,y=200,width=250,height=30)

    l4=Label(window\_3,text="Admission Number",bg="orange",font=font\_la)

    l4.place(x=35,y=240)

    addmissionno\_text=StringVar()

    e4=Entry(window\_3,textvariable=addmissionno\_text,font=("Arial Bold",13))

    e4.place(x=250,y=235,width=250,height=30)

    l5=Label(window\_3,text="Branch",bg="orange",font=font\_la)

    l5.place(x=530,y=240)

    branch\_text=StringVar()

    e5=Entry(window\_3,textvariable=branch\_text,font=("Arial Bold",13))

    e5.place(x=670,y=235,width=300,height=30)

    l6=Label(window\_3,text="Phone number",bg="orange",font=font\_la)

    l6.place(x=1010,y=240)

    phonenumber\_text=StringVar()

    e6=Entry(window\_3,textvariable=phonenumber\_text,font=("Arial Bold",13))

    e6.place(x=1200,y=235,width=250,height=30)

    l7=Label(window\_3,text="Book code",bg="orange",font=font\_la)

    l7.place(x=50,y=275)

    bookcode\_text=StringVar()

    e7=Entry(window\_3,textvariable=bookcode\_text,font=("Arial Bold",13))

    e7.place(x=250,y=270,width=250,height=30)

    l8=Label(window\_3,text="Book name",bg="orange",font=font\_la)

    l8.place(x=530,y=275)

    bookname\_text=StringVar()

    e8=Entry(window\_3,textvariable=bookname\_text,font=("Arial Bold",13))

    e8.place(x=650,y=270,width=320,height=30)

    l9=Label(window\_3,text="Author",bg="orange",font=font\_la)

    l9.place(x=1010,y=275)

    author\_text=StringVar()

    e9=Entry(window\_3,textvariable=author\_text,font=("Arial Bold",13))

    e9.place(x=1200,y=270,width=250,height=30)

    l12=Label(window\_3,text="Date of Issue of the Book ",font=("Elephant",13),bg="wheat1")

    l12.place(x=480,y=445)

    #TO create dropdown list for the date,month,year

    l13=Label(window\_3,text="DD",font=font,bg="wheat1")

    l13.place(x=495,y=505)

    t\_date\_text=StringVar()

    t\_date=ttk.Combobox(window\_3,textvariable=t\_date\_text,state="readonly",font=("Elephant",12),width=3)

    t\_date["values"]=(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31)

    t\_date.current(0)

    t\_date.place(x=490,y=475)

    t\_date.bind("<<ComboboxSelected>>",enter\_command)

    l14=Label(window\_3,text="MM",font=font,bg="wheat1")

    l14.place(x=565,y=505)

    t\_month\_text=StringVar()

    t\_month=ttk.Combobox(window\_3,textvariable=t\_month\_text,state="readonly",font=("Elephant",12),width=3)

    t\_month["values"]=(1,2,3,4,5,6,7,8,9,10,11,12)

    t\_month.current(0)

    t\_month.place(x=560,y=475)

    l15=Label(window\_3,text="YYYY",font=font,bg="wheat1")

    l15.place(x=635,y=505)

    t\_year\_text=StringVar()

    t\_year=ttk.Combobox(window\_3,textvariable=t\_year\_text,state="readonly",font=("Elephant",12),width=5)

    t\_year["values"]=(2021,2022,2023,2024,2025,2026,2027,2028,2029,2030)

    t\_year.current(0)

    t\_year.place(x=630,y=475)

    l16=Label(window\_3,text="Information box",font=("Elephant",12),bg="wheat1")

    l16.place(x=480,y=340)

    Info=Text(window\_3,height=2,width=38,font=("Elephant",13),bd=10,relief=RIDGE)

    Info.place(x=480,y=370)

    def info\_box():

        message=final\_backend\_done.Info\_func()

        Info.delete(1.0,END)

        Info.insert(tk.END,message)

    #To create a list Box which can display info about the students, books

    list1\_frame=Frame(window\_3,bd=10,relief=RIDGE,width=100,bg="wheat1")

    list1\_frame.place(x=1010,y=560,width=500,height=230)

    l10=Label(window\_3,text="BOOKS   DETAILS",font=font\_la,bg="wheat1")

    l10.place(x=1250,y=530)

    list1=Listbox(window\_3,height=11,width=73)

    list1.place(x=1030,y=580)

    sb1=Scrollbar(window\_3)

    sb1.place(x=1477,y=642)

    list1.configure(yscrollcommand=sb1.set)

    sb1.configure(command=list1.yview)

    list1.bind('<<ListboxSelect>>',get\_selected\_row)

    list2\_frame=Frame(window\_3,bd=10,relief=RIDGE,width=100,bg="wheat1")

    list2\_frame.place(x=10,y=560,width=430,height=230)

    l11=Label(window\_3,text="STUDENTS DETAILS",font=font\_la,bg="wheat1")

    l11.place(x=17,y=530)

    list2=Listbox(window\_3,height=11,width=63)

    list2.place(x=25,y=580)

    sb2=Scrollbar(window\_3)

    sb2.place(x=410,y=642)

    list2.configure(yscrollcommand=sb2.set)

    sb2.configure(command=list2.yview)

    list2.bind('<<ListboxSelect>>',get\_selected\_row\_1)

    list3=Listbox(window\_3,height=11,width=125)

    list3.pack

    sb3=Scrollbar(window\_3)

    sb3.pack

    list3.configure(yscrollcommand=sb3.set)

    sb3.configure(command=list3.yview)

    details=[]

    photo\_frame=Frame(window\_3,bg="DodgerBlue4",bd=10,relief=RIDGE)

    photo\_frame.place(x=40,y=340,width=180,height=180)

    print("before getting image:",std\_img\_address)

    std=Image.open(std\_img\_address)

    std=std.resize((155,155))

    my\_std= ImageTk.PhotoImage(std)

    global my\_label

    my\_label=Label(photo\_frame,image=my\_std)

    my\_label.grid(row=0,column=0)

    #To display the image of the selected  student

    def find\_command(roll\_num):

        global details

        global button\_std

        global std\_img\_address,std,my\_std

        global my\_label

        for row in final\_backend\_done.find(studentname\_text.get(),rollno\_text.get(),email\_text.get(),addmissionno\_text.get(),branch\_text.get(),phonenumber\_text.get()):

            details.append(row[2])

        print("after for loop")

        print(details)

        print("before condition")

        print(std\_img\_address)

        print("rollnum selected:",roll\_num)

        print(roll\_num)

        std\_img\_address=str(roll\_num)+".jpg"

        print("std\_img=",std\_img\_address)

        print("Type of :")

        print(type(my\_label))

        my\_label.grid\_forget()

        std=Image.open(std\_img\_address)

        std=std.resize((155,155))

        my\_std= ImageTk.PhotoImage(std)

        my\_label=Label(photo\_frame,image=my\_std)

        my\_label.grid(row=10,column=0)

    books\_frame=Frame(window\_3,bd=12,relief=RIDGE,bg="SkyBlue1")

    books\_frame.place(x=1040,y=330,width=190,height=225)

    Dataframe\_stud=Frame(window\_3,bd=12,relief=RIDGE,bg="SkyBlue1")

    Dataframe\_stud.place(x=255,y=330,width=190,height=225)

    look\_command()

    #\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*To create buttons to perform various tasks\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

    b2=tk.Button(window\_3,text="View all Books", width=15,command=view\_command,font=font,bg="dodger blue")

    b2.place(x=1054,y=345)

    b3=tk.Button(window\_3,text="Search  Book", width=15,command=search\_command,font=font,bg="dodger blue")

    b3.place(x=1054,y=385)

    b4=tk.Button(window\_3,text="Add Book", width=15,command=insert\_command,font=font,bg="dodger blue")

    b4.place(x=1054,y=425)

    b5=tk.Button(window\_3,text="Update  Book", width=15,command=update\_command,font=font,bg="dodger blue")

    b5.place(x=1054,y=465)

    b6=tk.Button(window\_3,text="Delete  Book", width=15,command=delete\_command,font=font,bg="dodger blue")

    b6.place(x=1054,y=505)

    b11=tk.Button(window\_3,text="All students",bg="dodger blue",width=15,command=view\_command\_1,font=font)

    b11.place(x=270,y=345)

    b9=tk.Button(window\_3,text="Find Student",bg="dodger blue",width=15,command=find\_student\_command,font=font)

    b9.place(x=270,y=385)

    b10=tk.Button(window\_3,text="Add Student",bg="dodger blue",width=15,command=add\_command,font=font)

    b10.place(x=270,y=425)

    b9=tk.Button(window\_3,text="Delete Student",bg="dodger blue",width=15,command=erase\_command,font=font)

    b9.place(x=270,y=505)

    b8=tk.Button(window\_3,text="Issue the Book",bg="orange",width=15,font=("Elephant",15),bd=10,command=selected\_1)

    b8.place(x=770,y=470)

    b10=tk.Button(window\_3,text="Update Student",bg="dodger blue",width=15,command=update\_s\_command,font=font)

    b10.place(x=270,y=465)

    b\_1=tk.Button(window\_3,text="New Scan",width=15,font=("Arial Bold",13),bg="ivory3",command=ScanPage)

    b\_1.place(x=10,y=140)

    b\_2=tk.Button(window\_3,text="Issued Book Details",width=21,font=("Arial Bold",13),bg="ivory3",command=IssuedDetailsPage)

    b\_2.place(x=170,y=140)

    b\_3=tk.Button(window\_3,text="Info",width=15,font=("Arial Bold",13),bg="ivory3",command=info\_command)

    b\_3.place(x=390,y=140)

    b\_4=tk.Button(window\_3,text="About  !",width=15,font=("Arial Bold",13),bg="ivory3",command=about\_command)

    b\_4.place(x=550,y=140)

    b\_5=tk.Button(window\_3,text="Help  ?",width=15,font=("Arial Bold",13),bg="ivory3",command=help\_command)

    b\_5.place(x=710,y=140)

    B2=tk.Button(window\_3,text="Register New User",width=15,command=register,font=("Arial Bold",13),bg="black",fg="ghost white")

    B2.place(x=870,y=140)

    b\_6=tk.Button(window\_3,text="",bg="ivory3",width=66)

    b\_6.place(x=1030,y=140,height=33)

    window\_3.state("zoomed")

    tk.mainloop()

    window\_3.mainloop()

#\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*WelcomePage\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

def welcomepage():

        window\_wel=tk.Tk()

        window\_wel.title("Welcome Page\_RAPPEL\_ver\_1.0")

        window\_wel.iconbitmap("icon.ico")

        window\_wel.geometry("1550x785")

        load=Image.open("welcome.jpg")

        load=load.resize((1550,790))

        photo=ImageTk.PhotoImage(load)

        label=tk.Label(window\_1,image=photo)

        label.image=photo

        label.place(x=0,y=0)

        label.bind("<Button-1>",LoginPage)

        window\_wel.state('zoomed')

        window\_wel.mainloop()

welcomepage()