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from tkinter import *
from PIL import ImageTk, Image

from tkinter import messagebox
from tkinter.font import Font

from captcha.image import ImageCaptcha
import random
import string

def recapp():#creating captcha
    letters=string.ascii_lowercase+string.digits+string.ascii_uppercase
    result_str=''.join(random.choice(letters) for i in range(9))
    image=ImageCaptcha(width=250,height=100)
    data=image.generate(result_str)
    image.write(result_str,'demo.png')
    return result_str#returning result or generated captcha

global check
check=recapp()#storing returned value to a variable
print(check)

root=Tk()
root.title("LOGIN PAGE")
root.configure(background="sky blue")

root.geometry("800x600")

#creating the list of captcha imaes
my_image0=ImageTk.PhotoImage(Image.open("demo.png"))
recapp()
my_image1=ImageTk.PhotoImage(Image.open("demo.png"))
```

```

recapp()
my_image2=ImageTk.PhotoImage(Image.open("demo.png"))
recapp()
my_image3=ImageTk.PhotoImage(Image.open("demo.png"))
recapp()
my_image4=ImageTk.PhotoImage(Image.open("demo.png"))
recapp()
my_image5=ImageTk.PhotoImage(Image.open("demo.png"))
recapp()
my_image6=ImageTk.PhotoImage(Image.open("demo.png"))
recapp()
my_image7=ImageTk.PhotoImage(Image.open("demo.png"))
recapp()
my_image8=ImageTk.PhotoImage(Image.open("demo.png"))
image_list=[my_image0,my_image1,my_image2,my_image3,my_image4,my_image5,my_image6,my_image7,my_image8]
imglabel=Label(image=my_image0)

mssglabfont=Font(family='Bodoni MT',size=25)
cappyfont=Font(family='Rockwell',size=12)
entryfont=Font(family='Arial',size=10)
buttonfont=Font(family='Rockwell',size=12)

#function to clear inserted data
def clear():
    name.set("")
    section.set("")
    email_id.set("")
    reg_no.set("")
    password.set("")
    capclear.set("")

```

#function to check entered captcha is correct or not

def fun():

code=capclear.get()

if (code==check):

messagebox.showinfo("saved","Sign in successfully!!!")

root=Tk()

root.title("Lovely Professional University")

root.configure(background="orange")

root.geometry("1200x1200")

mssg=Label(root,text="....Welcome to
LPU....",bg="#a7d9c5",font=mssglabfont,fg='#162e61').place(x=180,y=10)

mssg=Label(root,text="LPU currently offers over 300 degree and diploma programmes to aspirants at the UG, PG \n and doctoral levels. The programmes offered by LPU are from a variety of disciplines such \n as Engineering, IT & Software, Science, Teaching & Education, Management, Commerce, Law, Design, Arts, \nPhysiotherapy and Physical Education, among others. LPU admission 2023 to most of the courses is entrance-based.\n LPUNEST 2023 is the official entrance and scholarship exam conducted by the University. \nApart from LPUNEST, the University accepts several other national-level entrance exams,\n such as JEE Main, CLAT, CAT, NATA, etc.",bg="#a7d9c7",font=mssglabfont,fg='#162e61').place(x=40,y=80)

else:

messagebox.showinfo("ERROR","Wrong captcha!!!")

#function to refresh captcha

def forward(image_number):

global imglabel

global refreshb

imglabel.grid_forget()

imglabel=Label(image=image_list[image_number-1])

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refreshb=Button(root,text="Refresh",image=photo,border=4,height=15,width=15,command=lambda
:forward(image_number+1),bg="#e0e5ef")
```

```
imglabel.place(x=280,y=220)
```

```
refreshb.place(x=550,y=220)
```

```
img=ImageTk.PhotoImage(Image.open("demo.png"))
```

```
name=StringVar()
```

```
section=StringVar()
```

```
email_id=StringVar()
```

```
reg_no=StringVar()
```

```
password=StringVar()
```

```
capclear=StringVar()
```

```
imglabel.place(x=280,y=220)
```

```
#refresh button
```

```
photo=PhotoImage(file="C:\\Users\\Mayank Joshi\\Pictures\\Screenshots\\Screenshot (495).png")
```

```
#text written before entry box
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```
nname=Label(root,text="Name ",bg="#a7d9c5",font=cappyfont).place(x=170,y=80)
```

```
nsect=Label(root,text="Section ",bg="#a7d9c5",font=cappyfont).place(x=170,y=100)
```

```
nemail=Label(root,text="Email id ",bg="#a7d9c5",font=cappyfont).place(x=170,y=120)
```

```
nreg=Label(root,text="Reg No ",bg="#a7d9c5",font=cappyfont).place(x=170,y=140)
```

```
npwd=Label(root,text="Password ",bg="#a7d9c5",font=cappyfont).place(x=170,y=160)
```

```
txx=Label(root,text="Type the code you see below  
",bg="#a7d9c5",fg="#e03267",font=cappyfont).place(x=280,y=200)
```

```
cappy=Label(root,text="Captcha",bg="#a7d9c5",font=cappyfont).place(x=170,y=220)
```

```
mssg=Label(root,text="Login  
Page....",bg="#a7d9c5",font=mssglabfont,fg='#162e61').place(x=150,y=10)
```

#enter data

```
nameEne1=Entry(root,textvariable=name,font=entryfont).place(x=280,y=80,width=200)
secEne2=Entry(root,textvariable=section,font=entryfont).place(x=280,y=100,width=200)
emailEne3=Entry(root,textvariable=email_id,font=entryfont).place(x=280,y=120,width=200)
regEne4=Entry(root,textvariable=reg_no,font=entryfont).place(x=280,y=140,width=200)
passEne5=Entry(root,textvariable=password,font=entryfont).place(x=280,y=160,width=200)
captchaEne6=Entry(root,textvariable=capclear,font=entryfont).place(x=280,y=320,width=200)
```

#buttons

```
sbmitbtn=Button(root,text="Sign
in",command=lambda:fun(),bg="#b6aed9",width=7,height=1,font=buttonfont,border=3).place(x=280,y=380)

refreshb=Button(root,image=photo,border=2,height=15,width=15,command=lambda:forward(2),bg="#e0e5ef").place(x=550,y=220)

clrbutton=Button(root,text="clear",command=clear,width=7,height=1,font=buttonfont,border=4,bg="#b6aed9").place(x=380,y=378)
```