

checking.py

```

1  def addstudent():
2      def submitadd():
3          usn = idval.get()
4          name = nameval.get()
5          phone_no = mobileval.get()
6          placed_status = statusval.get()
7          comp_name = compNameval.get()
8          # addedtime = time.strftime("%H:%M:%S")
9          # addeddate = time.strftime("%d/%m/%Y")
10         try:
11             strr = 'insert into STUDENT1 values(%s,%s,%s,%s,%s)'
12             mycursor.execute(strr, (usn, name, phone_no, placed_status, comp_name))
13             con.commit()
14             res = messagebox.askyesnocancel('Notifications', 'id {} name {} Added
successfully.. and want to clear the form'.format(usn, name), parent=addroot)
15
16             if(res==True):
17                 idval.set('')
18                 nameval.set('')
19                 mobileval.set('')
20                 statusval.set('')
21                 compNameval.set('')
22         except:
23             messagebox.showerror('Notifications','Id Already exists try another id...',
parent=addroot)
24             strr = 'select *from student1'
25             mycursor.execute(strr)
26             datas = mycursor.fetchall()
27             studenttable.delete(*studenttable.get_children())
28             for i in datas:
29                 vv = [i[0],i[1],i[2],i[3],i[4]]
30                 studenttable.insert('',END,values=vv)
31
32
33         addroot = Toplevel(master=DataEntryFrame)
34         addroot.grab_set()
35         addroot.geometry('470x470+220+100')
36         addroot.title('Adding Details')
37         addroot.config(bg='blue')
38         addroot.iconbitmap('ico image.ico')
39         addroot.resizable(False,False)
40         #-----add student label-----
41         idlabel = Label(addroot,text='Enter USN: ',bg='gold2',font=('arial',18,'bold'),relief=
GROOVE,borderwidth=3,width=12,anchor='w')
42         idlabel.place(x=10,y=10)
43
44         namelabel = Label(addroot,text='Enter Name: ',bg='gold2',font=('arial',18,'bold'),
relief=GROOVE,borderwidth=3,width=12,anchor='w')
45         namelabel.place(x=10,y=70)
46
47         mobilabel = Label(addroot,text='Enter Mobile: ',bg='gold2',font=('arial',18,'bold'),
relief=GROOVE,borderwidth=3,width=12,anchor='w')
48         mobilabel.place(x=10,y=130)
49
50         statuslabel = Label(addroot,text='Placed Status: ',bg='gold2',font=('arial',18,'bold')
,relief=GROOVE,borderwidth=3,width=12,anchor='w')
51         statuslabel.place(x=10,y=190)
52

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53     compNameLabel = Label(addroot,text='Company Name: ',bg='gold2',font=('arial',18,'bold'
),relief=GROOVE,borderwidth=3,width=12,anchor='w')
54     compNameLabel.place(x=10,y=250)
55
56     ##-----add student entry-----
57     idval = StringVar()
58     nameval = StringVar()
59     mobileval = StringVar()
60     statusval = StringVar()
61     compNameval = StringVar()
62
63     identry = Entry(addroot,font=('arial',15,'bold'),bd=5,textvariable=idval)
64     identry.place(x=250,y=10)
65
66     nameentry = Entry(addroot,font=('arial',15,'bold'),bd=5,textvariable=nameval)
67     nameentry.place(x=250,y=70)
68
69     mobileentry = Entry(addroot,font=('arial',15,'bold'),bd=5,textvariable=mobileval)
70     mobileentry.place(x=250,y=130)
71
72     statusentry = Entry(addroot,font=('arial',15,'bold'),bd=5,textvariable=statusval)
73     statusentry.place(x=250,y=190)
74
75     compNameentry = Entry(addroot,font=('arial',15,'bold'),bd=5,textvariable=compNameval)
76     compNameentry.place(x=250,y=250)
77
78     #####-----add button-----
79     submitbtn = Button(addroot,text='Submit',font=('arial',15,'bold'),width=20,bd=5,
activebackground='blue'
80                        ,activeforeground='white',bg='red',command=submitadd)
81     submitbtn.place(x=150,y=420)
82
83
84     addroot.mainloop()
85
86
87 def searchstudent():
88     def search():
89         usn = idval.get()
90         name = nameval.get()
91         phone_no = mobileval.get()
92         placed_status = statusval.get()
93         comp_name = compNameval.get()
94         if(id != ''):
95             strr = 'select *from student1 where usn = %s'
96             mycursor.execute(strr,(usn))
97             datas = mycursor.fetchall()
98             studenttable.delete(*studenttable.get_children())
99             for i in datas:
100                 vv = [i[0],i[1],i[2],i[3],i[4]]
101                 studenttable.insert('',END,values=vv)
102
103         if(name != ''):
104             strr = 'select *from student1 where name = %s'
105             mycursor.execute(strr,(name))
106             datas = mycursor.fetchall()
107             studenttable.delete(*studenttable.get_children())
108             for i in datas:
109                 vv = [i[0],i[1],i[2],i[3],i[4]]
110                 studenttable.insert('',END,values=vv)

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111
112     if(phone_no != ''):
113         strr = 'select *from student1 where phone_no = %s'
114         mycursor.execute(strr,(phone_no))
115         datas = mycursor.fetchall()
116         studenttable.delete(*studenttable.get_children())
117         for i in datas:
118             vv = [i[0],i[1],i[2],i[3],i[4]]
119             studenttable.insert('',END,values=vv)
120
121     if(placed_status != ''):
122         strr = 'select *from student1 where placed_status = %s'
123         mycursor.execute(strr,(placed_status))
124         datas = mycursor.fetchall()
125         studenttable.delete(*studenttable.get_children())
126         for i in datas:
127             vv = [i[0],i[1],i[2],i[3],i[4]]
128             studenttable.insert('',END,values=vv)
129
130     if(comp_name != ''):
131         strr = 'select *from student1 where comp_name = %s'
132         mycursor.execute(strr,(comp_name))
133         datas = mycursor.fetchall()
134         studenttable.delete(*studenttable.get_children())
135         for i in datas:
136             vv = [i[0],i[1],i[2],i[3],i[4]]
137             studenttable.insert('',END,values=vv)
138
139
140     searchroot = Toplevel(master=DataEntryFrame)
141     searchroot.grab_set()
142     searchroot.geometry('470x540+220+100')
143     searchroot.title('Searching Details')
144     searchroot.config(bg='light blue')
145     searchroot.iconbitmap('ico image.ico')
146     searchroot.resizable(False,False)
147     #-----add student label-----
148     idlabel = Label(searchroot,text='Enter USN: ',bg='gold2',font=('arial',18,'bold'),
149 relief=GROOVE,borderwidth=3,width=12,anchor='w')
150     idlabel.place(x=10,y=10)
151
152     namelabel = Label(searchroot,text='Enter Name: ',bg='gold2',font=('arial',18,'bold'),
153 relief=GROOVE,borderwidth=3,width=12,anchor='w')
154     namelabel.place(x=10,y=70)
155
156     mobilabel = Label(searchroot,text='Enter Mobile: ',bg='gold2',font=('arial',18,'bold'),
157 relief=GROOVE,borderwidth=3,width=12,anchor='w')
158     mobilabel.place(x=10,y=130)
159
160     statuslabel = Label(searchroot,text='Placed Status: ',bg='gold2',font=('arial',18,'
161 bold'),relief=GROOVE,borderwidth=3,width=12,anchor='w')
162     statuslabel.place(x=10,y=190)
163
164     compNamelabel = Label(searchroot,text='Company Name: ',bg='gold2',font=('arial',18,'
165 bold'),relief=GROOVE,borderwidth=3,width=12,anchor='w')
166     compNamelabel.place(x=10,y=250)
167
168     ##-----add student entry-----
169     idval = StringVar()
170     nameval = StringVar()
171     mobileval = StringVar()
```

```

167     statusval = StringVar()
168     compNameval = StringVar()
169
170     identry = Entry(searchroot,font=('arial',15,'bold'),bd=5,textvariable=idval)
171     identry.place(x=250,y=10)
172
173     nameentry = Entry(searchroot,font=('arial',15,'bold'),bd=5,textvariable=nameval)
174     nameentry.place(x=250,y=70)
175
176     mobileentry = Entry(searchroot,font=('arial',15,'bold'),bd=5,textvariable=mobileval)
177     mobileentry.place(x=250,y=130)
178
179     statusentry = Entry(searchroot,font=('arial',15,'bold'),bd=5,textvariable=statusval)
180     statusentry.place(x=250,y=190)
181
182     compNameentry = Entry(searchroot,font=('arial',15,'bold'),bd=5,textvariable=
compNameval)
183     compNameentry.place(x=250,y=250)
184
185     #####-----add button-----
186     searchbtn = Button(searchroot,text='Search',font=('arial',15,'bold'),width=20,bd=5,
activebackground='blue'
187                     ,activeforeground='white',bg='red',command=search)
188     searchbtn.place(x=150,y=420)
189
190
191     searchroot.mainloop()
192
193
194 def deletestudent():
195     cc = studenttable.focus()
196     content = studenttable.item(cc) # where we have clicked in list of student
197     pp = content['values'][0] # to store primary key
198     strr = 'delete from student1 where USN=%s '
199     mycursor.execute(strr,(pp))
200     con.commit # update the list
201     messagebox.showinfo('Notifications','Deleted successfully...')
202
203     strr = 'select *from student1'
204     mycursor.execute(strr)
205     datas = mycursor.fetchall()
206     studenttable.delete(*studenttable.get_children())
207     for i in datas:
208         vv = [i[0],i[1],i[2],i[3],i[4]]
209         studenttable.insert('','END',values=vv)
210
211
212 def updatestudent():
213     def update():
214         usn = idval.get()
215         name = nameval.get()
216         phone_no = mobileval.get()
217         placed_status = statusval.get()
218         comp_name = compNameval.get()
219
220         strr = 'update student1 set name=%s,phone_no=%s,placed_status=%s,comp_name=%s
where usn=%s'
221         mycursor.execute(strr,(name,phone_no,placed_status,comp_name,usn))
222         con.commit()
223
224         messagebox.showinfo('Notifications','Modified successfully')

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225     strr = 'select *from student1'
226     mycursor.execute(strr)
227     datas = mycursor.fetchall()
228     studenttable.delete(*studenttable.get_children())
229     for i in datas:
230         vv = [i[0],i[1],i[2],i[3],i[4]]
231         studenttable.insert('',END,values=vv)
232
233     updatерoot = Toplevel(master=DataEntryFrame)
234     updatерoot.grab_set()
235     updatерoot.geometry('470x500+220+100')
236     updatерoot.title('Updating Details')
237     updatерoot.config(bg='light green')
238     updatерoot.iconbitmap('ico image.ico')
239     updatерoot.resizable(False,False)
240
241     #-----add student label-----
242     idlabel = Label(updatерoot,text='Enter USN: ',bg='gold2',font=('arial',18,'bold'),
243 relief=GROOVE,borderwidth=3,width=12,anchor='w')
244     idlabel.place(x=10,y=10)
245
246     namelabel = Label(updatерoot,text='Enter Name: ',bg='gold2',font=('arial',18,'bold'),
247 relief=GROOVE,borderwidth=3,width=12,anchor='w')
248     namelabel.place(x=10,y=70)
249
250     mobilabel = Label(updatерoot,text='Enter Mobile: ',bg='gold2',font=('arial',18,'bold'),
251 relief=GROOVE,borderwidth=3,width=12,anchor='w')
252     mobilabel.place(x=10,y=130)
253
254     statuslabel = Label(updatерoot,text='Placed Status: ',bg='gold2',font=('arial',18,'
255 bold'),relief=GROOVE,borderwidth=3,width=12,anchor='w')
256     statuslabel.place(x=10,y=190)
257
258     compNameLabel = Label(updatерoot,text='Company Name: ',bg='gold2',font=('arial',18,'
259 bold'),relief=GROOVE,borderwidth=3,width=12,anchor='w')
260     compNameLabel.place(x=10,y=250)
261
262     ##-----add student entry-----
263     idval = StringVar()
264     nameval = StringVar()
265     mobileval = StringVar()
266     statusval = StringVar()
267     compNameval = StringVar()
268
269     identry = Entry(updatерoot,font=('arial',15,'bold'),bd=5,textvariable=idval)
270     identry.place(x=250,y=10)
271
272     nameentry = Entry(updatерoot,font=('arial',15,'bold'),bd=5,textvariable=nameval)
273     nameentry.place(x=250,y=70)
274
275     mobileentry = Entry(updatерoot,font=('arial',15,'bold'),bd=5,textvariable=mobileval)
276     mobileentry.place(x=250,y=130)
277
278     statusentry = Entry(updatерoot,font=('arial',15,'bold'),bd=5,textvariable=statusval)
279     statusentry.place(x=250,y=190)
280
281     compNameentry = Entry(updatерoot,font=('arial',15,'bold'),bd=5,textvariable=
282 compNameval)
283     compNameentry.place(x=250,y=250)
284
285     #####-----add button-----

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280     updatebtn = Button(updateroot,text='Update',font=('arial',15,'bold'),width=20,bd=5,
activebackground='blue'
281                             ,activeforeground='white',bg='red',command=update)
282     updatebtn.place(x=150,y=420)
283     cc = studenttable.focus()
284     content = studenttable.item(cc)
285     pp = content['values']
286     if(len(pp) != 0):
287         idval.set(pp[0])
288         nameval.set(pp[1])
289         mobileval.set(pp[2])
290         statusval.set(pp[3])
291         compNameval.set(pp[4])
292
293
294     updateroot.mainloop()
295
296
297 def showstudent():
298     strr = 'select *from student1'
299     mycursor.execute(strr)
300     datas = mycursor.fetchall()
301     studenttable.delete(*studenttable.get_children())
302     for i in datas:
303         vv = [i[0],i[1],i[2],i[3],i[4]]
304         studenttable.insert('',END,values=vv)
305
306
307 def exitstudent():
308     res = messagebox.askyesnocancel('Notification','Do you want to exit')
309     if(res==True):
310         root.destroy()
311
312 ##### Connection of database
313 def Connectdb():
314     def submitdb():
315         global con,mycursor
316         host = hostval.get()
317         user = userval.get()
318         password = passwordval.get()
319
320         print(host,user,password)
321         try:
322             con = pymysql.connect(host=host,user=user,password=password)
323             mycursor = con.cursor()
324         except:
325             messagebox.showerror('Notifications','Data is incorrect please try again',
parent=dbroot)
326             return
327         try:
328             strr = 'create database COLLEGE1'
329             mycursor.execute(strr)
330             strr = 'use COLLEGE1'
331             mycursor.execute(strr)
332             strr = 'create table STUDENT1(usn varchar(10),name varchar(25),phone_no
varchar(10),placed_status varchar(10),comp_name varchar(30))'
333             mycursor.execute(strr)
334             strr = 'alter table STUDENT1 modify column usn varchar(10) not null'
335             mycursor.execute(strr)
336             strr = 'alter table STUDENT1 modify column usn varchar(10) primary key'
337             mycursor.execute(strr)

```

```

338         messagebox.showinfo('Notification','Database Connected Successfully...',
parent=dbroot)
339
340     except:
341         strr = 'use COLLEGE1'
342         mycursor.execute(strr)
343         messagebox.showinfo('Notification','Now you are connected to database...',
parent=dbroot)
344         dbroot.destroy()
345
346
347     dbroot = Toplevel()
348     dbroot.grab_set()
349     dbroot.geometry('470x250+800+230')
350     dbroot.iconbitmap('ico image.ico')
351     dbroot.resizable(False,False)
352     dbroot.config(bg='blue')
353     ##### connectdb labels
354     hostlabel = Label(dbroot,text="Enter Host :",bg='gold2',font=('times',20,'bold'),
relief=GROOVE,borderwidth=3,width=13,anchor='w')
355     hostlabel.place(x=10,y=10)
356
357     userlabel = Label(dbroot,text="Enter User :",bg='gold2',font=('times',20,'bold'),
relief=GROOVE,borderwidth=3,width=13,anchor='w')
358     userlabel.place(x=10,y=70)
359
360     passwordlabel = Label(dbroot,text="Enter Password :",bg='gold2',font=('times',20,'
bold'),relief=GROOVE,borderwidth=3,width=13,anchor='w')
361     passwordlabel.place(x=10,y=130)
362     ##### Connectdb Entry
363     hostval = StringVar()
364     userval = StringVar()
365     passwordval = StringVar()
366
367     hostentry = Entry(dbroot,font=('arial',15,'bold'),bd=5,textvariable=hostval)
368     hostentry.place(x=250,y=10)
369
370     userentry = Entry(dbroot,font=('arial',15,'bold'),bd=5,textvariable=userval)
371     userentry.place(x=250,y=70)
372
373     passwordentry = Entry(dbroot,font=('arial',15,'bold'),bd=5,textvariable=passwordval)
374     passwordentry.place(x=250,y=130)
375
376     ### Connectdb button
377     submitbutton = Button(dbroot,text='Submit',font=('arial',15,'bold'),width=20,bg='red',
bd=5,activebackground='blue',activeforeground='white',command=submitdb)
378     submitbutton.place(x=150,y=190)
379
380     dbroot.mainloop()
381
382     #####
383     def tick():
384         time_string = time.strftime("%H:%M:%S")
385         date_string = time.strftime("%d/%m/%Y")
386         clock.config(text='Date :'+date_string+"\n"+"Time :"+time_string)
387         clock.after(200,tick)
388
389     ### intro slider
390     import random
391     colors = ['red','green','blue','yellow','pink','red2']
392     def IntroLabelColorTick():

```



```
393     fg = random.choice(colors)
394     SliderLabel1.config(fg=fg)
395     SliderLabel1.after(2,IntroLabelColorTick)
396
397 def IntroLabelTick():
398     global count,text
399     if(count >= len(ss)):
400         count = 0
401         text = ''
402         SliderLabel1.config(text=text)
403     else:
404         text = text + ss[count]
405         SliderLabel1.config(text=text)
406         count += 1
407     SliderLabel1.after(200,IntroLabelTick)
408
409
410 from tkinter import *
411 from tkinter import Toplevel,messagebox
412 import random
413 from tkinter.ttk import Treeview
414 from tkinter import ttk
415 import time
416 import pymysql
417 root = Tk()
418 root.title('College Placement')
419 root.config(bg='gold2')
420 root.geometry('1174x600+100+40')
421 root.iconbitmap('logo.ico')
422 root.resizable(False,False)
423
424 ### frames
425 #---- dataentry Frame
426 DataEntryFrame = Frame(root,bg='gold2',relief=SOLID,borderwidth=2)
427 DataEntryFrame.place(x=10,y=80,width=400,height=500)
428 frontlabel = Label(DataEntryFrame,text='-----WELCOME-----',width=25,font=('arial',22,
429 'italic bold'),bg='gold2')
430 frontlabel.pack(side=TOP,expand=True)
431
432 addbtn = Button(DataEntryFrame,text='1. Add Student',width=20,font=('arial',20,'bold'),bd=
433 6,bg='skyblue3',activebackground='blue',relief=RIDGE,
434         activeforeground='white',command=addstudent)
435 addbtn.pack(side=TOP,expand=True)
436
437 searchbtn = Button(DataEntryFrame,text='2. Search Student',width=20,font=('arial',20,'
438 bold'),bd=6,bg='skyblue3',activebackground='blue',relief=RIDGE,
439         activeforeground='white',command=searchstudent)
440 searchbtn.pack(side=TOP,expand=True)
441
442 deletebtn = Button(DataEntryFrame,text='3. Delete Student',width=20,font=('arial',20,'
443 bold'),bd=6,bg='skyblue3',activebackground='blue',relief=RIDGE,
444         activeforeground='white',command=deletestudent)
445 deletebtn.pack(side=TOP,expand=True)
446
447 updatebtn = Button(DataEntryFrame,text='4. Update Student',width=20,font=('arial',20,'
448 bold'),bd=6,bg='skyblue3',activebackground='blue',relief=RIDGE,
449         activeforeground='white',command=updatestudent)
450 updatebtn.pack(side=TOP,expand=True)
451
452 displaybtn = Button(DataEntryFrame,text='5. Display Student',width=20,font=('arial',20,'
453 bold'),bd=6,bg='skyblue3',activebackground='blue',relief=RIDGE,
```



```
448         activeforeground='white',command=showstudent)
449 displaybtn.pack(side=TOP,expand=True)
450
451
452 exitbtn = Button(DataEntryFrame,text='6. Exit',width=20,font=('arial',20,'bold'),bd=6,bg='
skyblue3',activebackground='blue',relief=RIDGE,
453         activeforeground='white',command=exitstudent)
454 exitbtn.pack(side=TOP,expand=True)
455
456 ##-----Show data frame
457 showDataFrame = Frame(root,bg='gold2',relief=GROOVE,borderwidth=2)
458 showDataFrame.place(x=450,y=80,width=720,height=500)
459
460 ##-----show dataframe-----
461 style = ttk.Style()
462 style.configure('Treeview.Heading',font=('arial',20,'italic bold'),foreground='blue')
463 style.configure('Treeview',font=('times new roman',15,'italic bold'),foreground='black',
background='cyan')
464
465 scroll_x = Scrollbar(showDataFrame,orient=HORIZONTAL)
466 scroll_y = Scrollbar(showDataFrame,orient=VERTICAL)
467 studenttable = Treeview(showDataFrame,columns=('USN','NAME','PHONE NO.','PLACED STATUS','
COMPANY NAME'),
468                        yscrollcommand=scroll_y.set,xscrollcommand=scroll_x.set)
469 scroll_x.pack(side=BOTTOM,fill=X)
470 scroll_y.pack(side=RIGHT,fill=Y)
471 scroll_x.config(command=studenttable.xview)
472 scroll_y.config(command=studenttable.yview)
473 studenttable.heading('USN',text='USN')
474 studenttable.heading('NAME',text='NAME')
475 studenttable.heading('PHONE NO.',text='PHONE NO.')
476 studenttable.heading('PLACED STATUS',text='PLACED STATUS')
477 studenttable.heading('COMPANY NAME',text='COMPANY NAME')
478 studenttable['show'] = 'headings'
479 studenttable.column('USN',width=150)
480 studenttable.column('NAME',width=300)
481 studenttable.column('PHONE NO.',width=200)
482 studenttable.column('PLACED STATUS',width=100)
483 studenttable.column('COMPANY NAME',width=400)
484
485 studenttable.pack(fill=BOTH,expand=1)
486
487
488 ### slider
489 ss = 'Welcome To College Placement System\n Developed by P4-Innovators |Copyright Reserved
@P4'
490 count =0
491 text = ''
492 #####
493 SliderLabel1 = Label(root,text=ss,font=('time new roman',20,'italic bold'),relief=RIDGE,
borderwidth=5,bg='white')
494 SliderLabel1.place(x=260,y=0)
495 IntroLabelTick()
496 IntroLabelColorTick()
497
498 #### clock
499 clock = Label(root,text=ss,font=('time',14,'bold'),relief=RIDGE,borderwidth=4,bg='lawn
green')
500 clock.place(x=0,y=0)
501 tick()
502
```

```
503 |
504 | ### connect database button
505 | connectbutton = Button(root,text='Connect To Database',width=20,font=('time new roman',15,
506 | 'italic bold'),relief=RIDGE,borderwidth=4,bg='green2',
507 |                      activebackground='blue',activeforeground='white',command=Connectdb)
508 | connectbutton.place(x=920,y=0)
509 | root.mainloop()
```