UPES PYTHON LAB ASSIGNMENT

EXPERIMENT – 12&13

Q1.

a) import Tkinter package and create a window and set its title
b) set the default window size using geometry function
c) Create a label with “Hello” text in it and set its position on the form.
d) Adda button to the window with “CLICK ME” written on it.
e) change the foreground and background color for the button created above
f) Create a function that will be executed when the button is clicked and print “Button was clicked” on clicking the button

SOL:-

```
import tkinter
window = tkinter.Tk()
window.title("GUI")
window.geometry("800x400")
l1 = tkinter.Label(window,text="Hello",font=("Arial bold",50))
def clicked():
    l1.configure(text="button was clicked")
bt=tkinter.Button(window,text="CLICK ME",fg="blue", bg="black",command=clicked)
l1.pack()
bt.pack()
window.mainloop()
```

OUTPUT :

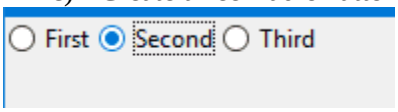
OUTPUT AFTER CLICKING BUTTON

Q2 This. is the continuation of Question1, add the given below features in the above program:

a) Take**user name** as input using the Tkinter Entry class

b) Print the entered text (username) on clicking the button.

c) Create three RadioButtons as displayed below



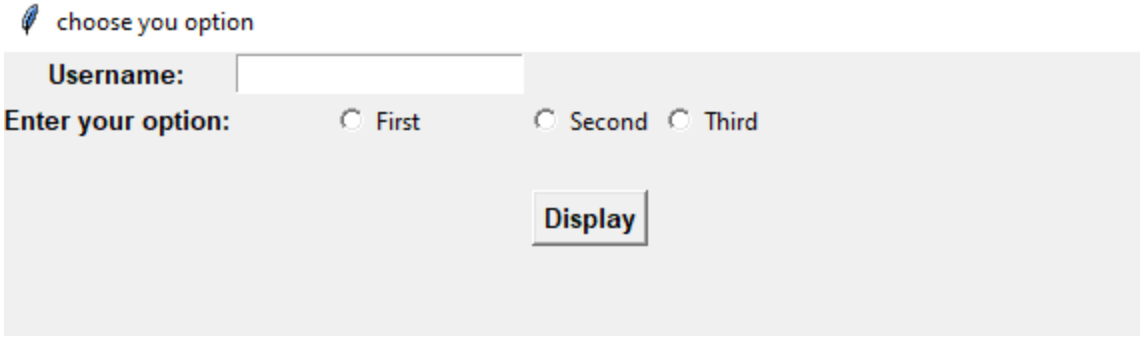
d) Print the currently selected radio button or the radio button value.

SOL:-

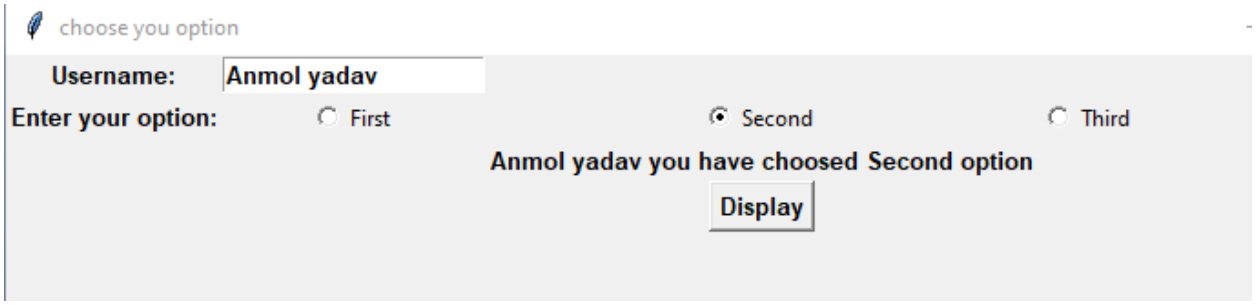
```
from tkinter import *
window=Tk()
window.title("choose you option")
window.geometry("800x600")
l1=Label(window,text="Username:",font=("Arial bold",10))
l1.grid(column=0,row=10)
e=Entry(window,font=("Arial bold",10),width=20)
e.grid(column=1,row=10)
l2=Label(window,text="Enter your option:",font=("Arial bold",10))
l2.grid(column=0,row=30)

r = IntVar()
def setR():
    n=r.get()
    if(n==1):
        return "First"
    if (n == 2):
        return "Second"
    if (n == 3):
        return "Third"
r1 = Radiobutton(window, text="First", value=1, variable=r,command=setR)
r2 = Radiobutton(window, text="Second", value=2, variable=r,command=setR)
r3 = Radiobutton(window, text="Third", value=3, variable=r,command=setR)
r1.grid(column=1,row=30)
r2.grid(column=2,row=30)
r3.grid(column=3,row=30)
l3=Label(window,text=' ',font=("Arial bold",10))
l3.grid(column=2,row=60)
```

```
def display():
    txt=setR()
    temp=e.get()+' '+ 'you have choosed' +' '+ txt +' '+'option'
    l3.configure(text=temp)
b1=Button(window,text='Display',font=("Arial bold",10),command=display)
b1.grid(column=2,row=90)
window.mainloop()
```

OUTPUT:-



Output after enter details:



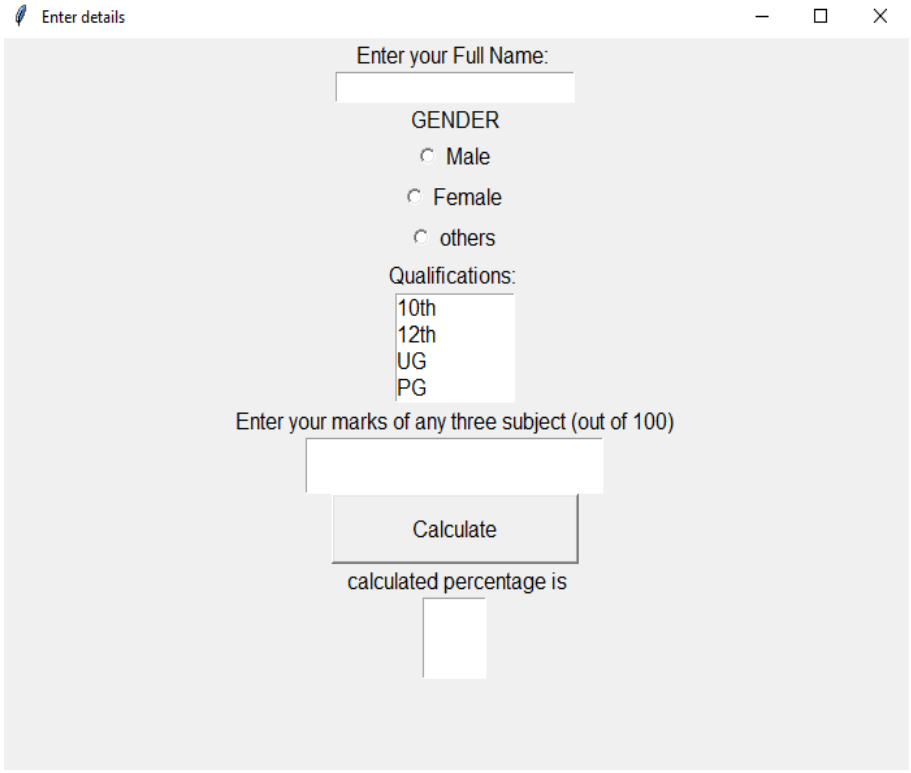
Q3. Write a program to accept following details from a student using GUI
1. Name of the student (using Textbox)
2. Gender (Using radio button)
3. Qualification (Using List)
4. Marks of three subjects (using Textbox)

Compute the percentage of the student and display it in a textbox.

Sol:-

```
import tkinter as tk
window=tk.Tk()
window.title(" Enter details")
window.geometry("700x700")
var=tk.IntVar()
tk.Label(text = "Enter your Full Name: ",font= "Airel").pack()
tk.Text(window,font= "Airel,bold",height=1,width=20).pack()
tk.Label(text = "GENDER",font= "Airel,bold").pack()
tk.Radiobutton(window, font= "Airel",text="Male", variable=var, value=1).pack()
tk.Radiobutton(window,font= "Airel", text="Female", variable=var, value=2).pack()
tk.Radiobutton(window, font= "Airel",text="others", variable=var, value=3).pack()
tk.Label(text = "Qualifications: ",font= "Airel").pack()
Lb=tk.Listbox(window,height=4,width=10,font= "Airel")
Lb.insert(1, '10th')
Lb.insert(2, '12th')
Lb.insert(3, 'UG')
Lb.insert(4, 'PG')
Lb.pack()
def dispaly():
    INPUT = inputmarks.get("1.0","end-1c")
    lst=INPUT.split()
    x=0
    for i in range(len(lst)):
        x=x+int(lst[i])
    Output.insert("1.0",x//3)

tk.Label(text = "Enter your marks of any three subject (out of 100)",font= "Airel").pack()
inputmarks = tk.Text(window,font= "Airel", height = 2,width = 25)
l=tk.Label(font= "Airel",text = " calculated percentage is")
Display = tk.Button(window,font= "Airel",activebackground="white", activeforeground="black",height = 2,width = 20,
Output = tk.Text(window, font= "Airel",height = 3,width = 5)
inputmarks.pack()
Display.pack()
l.pack()
Output.pack()
window.mainloop()
```

Output:-



Output after enter the user details:-