Q1.Create a simple tkinter application to display a welcome message in a window using the label widget. In [1]: from tkinter import * window = Tk()label=Label(window,text='Welcome to Tkinter') label.grid(row=0,column=2) window.mainloop() In [] Q2. Create tkinter application to accept user name in a text widget. Then display the user name with a welcome message in a label widget In [4]: from tkinter import * window = Tk()def accept(): name = str(t.get(1.0, 'end-1c')) 1.config(text='Welcome '+ str(name)) print('Successfully Printed ') t = Text(window,height=5,width=20) t.pack() l= Label(window) 1.pack() b = Button(window,text='Click',command=accept) b.pack() window.mainloop() Successfully Printed In [] Q3.Modify the tkinter application developed in Q.No. 2 so that it uses a grid layout In [5]: from tkinter import * window = Tk()def accept(): name = str(t.get(1.0, 'end-1c')) 1.config(text='Welcome '+ str(name)) print('Successfully Printed ') t = Text(window,height=5,width=20) t.grid(row=0,column=0) l= Label(window) l.grid(row=1,column=0) b = Button(window,text='Click',command=accept) b.grid(row=2,column=0) window.mainloop() Successfully Printed In []: Q4.Create a tkinter application to accept radius of a circle and display the area. from tkinter import * window = Tk()def area(): convert = float(e.get()) ar = (convert**2)*3.14t.delete('1.0',END) t.insert(END,ar) print("Printed Successfully!")\ 11 = Label(window,text='Enter the radius of circle:') 11.grid(row=0,column=0) e = StringVar() e1 = Entry(window,textvariable=e) e1.grid(row=0,column=1) 12 = Label(window,text='Area of circle:') 12.grid(row=1,column=0) t = Text(window, height = 3, width = 20) t.grid(row=1,column=1) b = Button(window,text='Display',command=area) b.grid(row=2,column=1) window.mainloop() Printed Successfully! In [] Q5.Create a tkinter application to accept temperature in Celsius and convert and display the temperature in Fahrenheit. from tkinter import * window = Tk()def celsius(): n_celsius = float(a.get()) faren = $(in_celsius*(9/5))+32$ t.delete('1.0',END) t.insert(END, faren) print('Successfully Converted!') 1 = Label(window,text='Temperature in celsius:') l.grid(row=0,column=0) a = StringVar() e = Entry(window,textvariable=a) e.grid(row=0,column=1) 11 = Label(window,text='Temperature in Fahrenheit:') 11.grid(row=2,column=0) t = Text(window,height=2,width=10) t.grid(row=2,column=1) b = Button(window,text='Convert',command=celsius) b.grid(row=3,column=1) window.mainloop() In [Q6.Create a tkinter application to accept distance in kilometers and convert and display distance in miles. In [13]: from tkinter import * window = Tk()def km_to_miles(): miles = float(km.get())*1.609 t.delete('1.0',END) t.insert(END, miles) print('Successfully Converted!') 11 = Label(window,text='Distance in Kilometers:') 11.grid(row=0,column=0) km = StringVar() e = Entry(window,textvariable=km) e.grid(row=0,column=1) 12 = Label(window,text='Distance in miles:') 12.grid(row=1,column=0) t = Text(window,height=1,width=20) t.grid(row=1,column=1) b = Button(window,text='Convert',command=km_to_miles) b.grid(row=2,column=1) window.mainloop() Successfully Converted! In []: Q7.Create a tkinter application to display a menu with three items. A separate message should be display when each of the three menu items is clicked. In [14]: from tkinter import * window = Tk()def option1(): 11 = Label(window,text='File Opened') 11.pack() def option2(): 12 = Label(window,text='File Saved') 12.pack() def option3(): 13 = Label(window,text='File CLosed') 13.pack() m = Menu(window) file1 = Menu(m)file1.add_command(label='Open',command=option1) file1.add_separator() file1.add_command(label='Save',command=option2) file1.add_command(label='Exit',command=option3) file1.add_separator() m.add_cascade(label='File',menu=file1) window.config(menu=m) window.mainloop() In [] Q8.Create a tkinter application to display a radio button group with three items. A separate message should be display when each of the three radio buttons items is clicked. In [16]: from tkinter import * window = Tk()def sel(): selection = "You selected the item " + str(var.get()) label.config(text=selection) var = IntVar() R1 = Radiobutton(window,text='Item 1',variable = var, value=1,command=sel) R1.pack() R2 = Radiobutton(window,text='Item 2',variable = var, value=2,command=sel) R2.pack() R3 = Radiobutton(window,text='Item 3',variable = var, value=3,command=sel) R3.pack() label = Label(window) label.pack() window.mainloop() Q9.Create a tkinter application to display three check boxes. A separate message should be display when each of the three check boxes items is selected. In [1]: from tkinter import * window = Tk()def item1(): if(Check1.get() == 1): selection = 'You selected the option python programming' else: selection = 'You de-selected the option python programming' label.config(text=selection) def item2(): if(Check2.get() == 1): selection = 'You selected the option Tkinter programming' else: selection = 'You de-selected the option Tkinter programming' label.config(text=selection) def item3(): **if**(Check3.get() == 1): selection = 'You selected Pandas' else: selection = 'You de-selected the Pandas Options' label.config(text=selection) Check1 = IntVar() Check2 = IntVar() Check3 = IntVar() C1 = Checkbutton(window,text='Python Programming',variable=Check1,onvalue=1,offvalue=0,height=5,width=20,command=item1) C2 = Checkbutton(window,text='Tkinter',variable=Check2,onvalue=1,offvalue=0,height=5,width=20,command=item2) C3 = Checkbutton(window,text='Pandas',variable=Check3,onvalue=1,offvalue=0,height=5,width=20,command=item3) C1.pack() C2.pack() C3.pack() label= Label(window) label.pack() window.mainloop() In []: Q10.Create a tkinter application which contains a list box with five items. Whenever an item in the list box is selected, the item's text should be displayed from tkinter import * window = Tk()def my_upd(): print(l1.get(ACTIVE)) # Get the ACTIVE / selected elements 11= Listbox(window, height=5) 11.grid(row=1,column=1) my_list=['tnkinter','numpy','pandas','python','Open-CV'] for element in my_list: 11.insert(END, element) b1 = Button(window,text='Show',width=10,bg='green',command=my_upd) b1.grid(row=1,column=2) window.mainloop() tnkinter numpy pandas python Open-CV In []: In []: