PYTHON FOR PROFESSIONALS – SESSION 14, 15, 16

IMPORTING TKINTER

import tkinter as tk

INITIALIZING GUI

Intializing a GUI

```
import tkinter as tk

calc=tk.Tk()

#adding title
calc.title("calculator")

#specifing size
calc.geometry('400x400')

#background colour
calc.configure(bg='cyan')

#transparent background
calc.attributes("-alpha",0.9)

calc.mainloop()
```



LABLE

Lable (Place with Pack Horizontally)

Entry Box (Place with Pack Vertically)

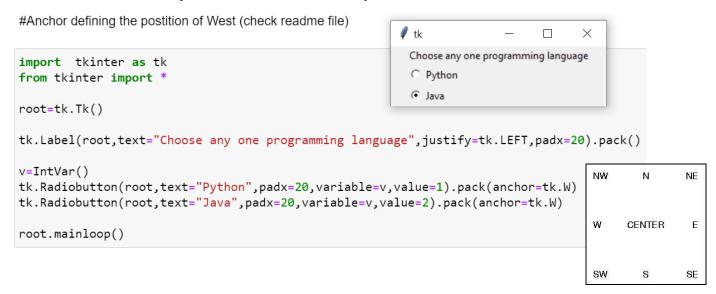
BUTTON

Button with Command (Place with Pack and Side)

```
from tkinter import*
                                        button
                                                                       X
                                                                 win=Tk()
win.title("button")
win.geometry("300x120")
                                       User name
def info():
    print("Please type your name")
                                                       contact number
def contact():
    print("Please type your contact number")
a=Button(win,text="User name",bg="pink",fg="black",command=info)
a.pack(fill=X,side=LEFT)
a=Button(win,text="contact number",bg="yellow",fg="red",command=contact)
a.pack(fill=X,side=BOTTOM)
win.mainloop()
```

Please type your name Please type your contact number

Radio Button (Place with Pack)



CHECK BOX

Check Button (Place with Grid)

```
tk
                                                                                 X
#- with select, deselect and disable functions
                                                        Choose any one gift

✓ bags

import tkinter as tk
from tkinter import*
                                                           master=Tk()
master.geometry("300x120")
a = Label(master,text="Choose any one gift",justify=tk.LEFT,padx=20).grid(row=0)
var1=IntVar()
check1=Checkbutton(master,text="bags",variable=var1)
check1.select()
check1.grid(row=1, column = 0)
var2=IntVar()
check2=Checkbutton(master,text="shoes",variable=var2, state="disable")
check2.deselect()
check2.grid(row=2, column = 0)
mainloop()
```

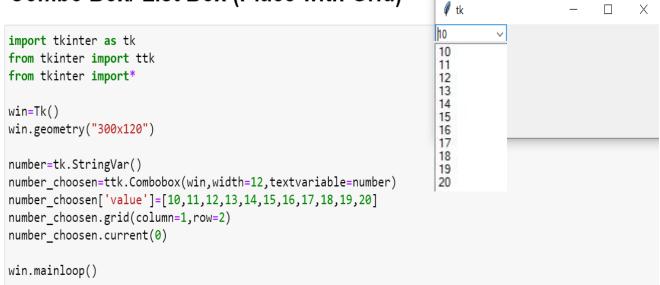
Scrolltext (Place with Grid)

#wrap text #columnspan

```
tk
                                                                          \times
                                                                    import tkinter as tk
                                         My name is Wardah
from tkinter import*
                                         I am Electronics Engineer
from tkinter import scrolledtext
                                         Python Programmer & Instructor v
master=Tk()
master.geometry("300x120")
#using scrolled text control
scroll_w = 30
scroll h = 3
scr = scrolledtext.ScrolledText(master, width=scroll_w, height=scroll_h, wrap=tk.WORD)
scr.grid(row = 3, columnspan=3)
master.mainloop()
```

сомво вох

Combo Box/ List Box (Place with Grid)





Number Guessing Game - Game 2

