**GUI With Tkinter**

# Introduction To Graphical User Interface(GUI):

Graphical User Interface(GUI)is user interaction application which is to change the settings,

edit the documents,play the games ,surfing the internet etc .This application is performe many task on laptops,desktops,elctronic device etc.

**Introduction to Tkinter:**

It is a inbuilt pre define module for gui in python ,as well it is very popular use module in python and most commom use.It is come default in python

**To install a tkinter library:**

sudo apt-get install python3-tk

**import:**

import tkinter

1.To initialize the window we can invoke the tk method by using tkinter module and then assign the variable.This method is used to create the blank window

**Syntax:**

tkinter.Tk()

Ex:

window=tkinter.Tk()

2. To rename the window we going to use the title method

Ex:

window.title(title\_window)

3.Label is used to inset the some objects

4.pack() is attribute which is used display the data widget in size how much it requires

5.mainloop() is a method which is used to display the window till it close by someone

**Button:**

This widget is used to add the button in python GUI application.It is used to display the text or image In convey purpose for the buttons

**Synatx:**

w=Button(window, option=value)

**window:** It is representing parent or base window

**Options:**We have multiple options in button ,below are the details

**activatebackground:**It is used to set a background color when the button mode is under the cursor

**activateforeground:**It is used to set a foreground color when the button mode is under the cursor

**bg:**It is used to set a normal color for background

**command:**To call a fucntion

**font:** It is used to set the font for the label

**Image:** It is used to set a image top of the button

**width:** It is used to set a button width

**height:** It is used to set a button height

**Example:**

import tkinter as tk

user\_button = tk.Tk()

user\_button.title('Creating a Button')

button = tk.Button(user\_button, text='Click Me', width=25, command=user\_button.destroy)

button.pack()

user\_button.mainloop()

**Output:**



**Entry Widgets:**

This widget is used to single line input text from the user

**Syntax:**

w=Entry(master, option=value)

**master:** It is representing parent or base window

**Options**:We have multiple options in button ,below are the details

**bd:**It is used to border width

**bg:**It is used to set a normal color for background

**cursor:**It is used to Set the cursor which is used

**command:**To call a fucntion

**Example:**

from tkinter import \*

master = Tk()

Label(master, text='First Name').grid(row=0)

Label(master, text='Last Name').grid(row=1)

first = Entry(master)

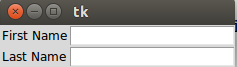
second = Entry(master)

first.grid(row=0, column=1)

second.grid(row=1, column=1)

mainloop()

**Output:**



**Text Widget:**

This widget is used to add the multiple lines of text.

**Syntax:**

w=Entry(master, option=value)

**master:** It is representing parent or base window

**Options**:We have multiple options in button ,below are the details

**Example:**

from tkinter import \*

root = Tk()

user\_text = Text(root, height=2, width=30)

user\_text.pack()

user\_text.insert(END, 'GeeksforGeeks\nBEST WEBSITE\n')

mainloop()

**Output:**

**checkButton:**

This widget is used to select the multiple options from the displaying options .

**Syntax:**

w=Entry(master, option=value)

**master:** It is representing parent or base window

**Options**:We have multiple options in button ,below are the details

**row:** To decide the row

**sticky:** to display the check box in arranged order

**Example:**

from tkinter import \*

master = Tk()

g\_male = IntVar()

Checkbutton(master, text='male', variable=g\_male).grid(row=0,sticky=W)

g\_female = IntVar()

Checkbutton(master, text='female', variable=g\_female).grid(row=1,sticky=W)

mainloop()

**Output:**

