

Task-11.1

USE Tkinter module for UI design

Aim :

To use tkinter module for UI design.

→ write a Python GUI program to create a label and change the label font style using tkinter module.

Algorithm :

- Import tkinter module.
- create a main window
- create a label with desired text
- Add the label to the main window using pack() method
- Define a function to change font style.
- create a button to call the function when clicked.
- Add the button to the main window using pack() method.
- start the main loop.

Program :

```
import tkinter as tk

# function to change font style
def change-font():
    label.config(font = ["Arial", 18, "bold"])


# create main window
root = tk.Tk()

# create label with desired text
label = tk.Label(root, text = "Hello, world!", font
                  = ["Helvetica", 14])

# Add label to main window
label.pack()

# start the mainloop
root.mainloop()
```

output :-

-  x

Hello, World!

change font

start the main loop
root.mainloop()

Task 11.2

Aim:-

To write a python gui program to create three single line text-box to accept a value from the user tkinter module.

Algorithm:-

- Import the tkinter module
- create the main window
- Add Labels and text-boxes to the main window
- set the size of the text-boxes
- create a button to submit the values entered in the text-boxes.
- Get the values entered in the text boxes when the button is clicked.
- close the main window when the button is clicked.

Program

```
import tkinter as tk

# create the main window
root = tk.Tk()
root.title("Text-Box Input")

# create labels and text-boxes
label1 = tk.Label(root, text = "Enter value 1:")
entry1 = tk.Entry(root)

label2 = tk.Label(root, text = "Enter value 2:")
entry2 = tk.Entry(root)

label3 = tk.Label(root, text = "Enter value 3:")
entry3 = tk.Entry(root)

# set the size of the text-boxes
entry1.config(width = 30)
entry2.config(width = 30)
entry3.config(width = 30)
```

output :

T... - X

Enter value 1:

Enter value 2:

Enter value 3:

create a function to get the values entered in the text-boxes.

```
def get-values():
```

```
    val1 = entry1.get()
```

```
    val2 = entry2.get()
```

```
    val3 = entry3.get()
```

```
    print("value 1:", val1)
```

```
    print("value 2:", val2)
```

```
    print("value 3:", val3)
```

create a button to submit the values entered in the text-boxes

```
submit-button = tk.Button(root, text="submit",  
                           command=get-values)
```

Add the labels, text-boxes, and button to the main window

```
label1.pack()
```

```
entry1.pack()
```

```
label2.pack()
```

```
entry2.pack()
```

```
label3.pack()
```

```
entry3.pack()
```

```
submit-button.pack()
```

```
# Run the main event loop
```

```
root.mainloop()
```

| VEL TECH | |
|-------------------------|----|
| EX NO. | U |
| PERFORMANCE (5) | 5 |
| RESULT AND ANALYSIS (3) | 5 |
| VIVA VOCE (5) | 5 |
| RECORD (5) | |
| TOTAL (20) | |
| SIGN WITH DATE | 15 |

Result - Thus the program using Tkinter module for ui design was executed and verified successfully