**Python Asynchronous Session on 21-Aug-2020**

**Q1. Compare and contrast the following:**

**a. Menu and Menu Button:**

Menu: The Menu widget is used to provide various commands to a

user. These commands are contained inside Menubutton.

Menu Button: The Menubutton widget is used to display menus in

your application.

**b. Slider and ScrollBar**

Slider: A slider is a Tkinter object with which a user can set a value by

moving an indicator.

ScrollBar: The Scrollbar widget is used to add scrolling capability to

various widgets, such as list boxes.

**c. tk and tkk**

tk: The tkinter package (“Tk interface”) is the standard Python

interface to the Tk GUI toolkit.

tkk: ttk is more modern and it is configurable with styles which are

really handy shortcuts.

**d. Entry and Text**

Entry: Entry widget is a standard Tkinter widget used to enter or

display a single line of text.

Text: Text widget is used as a Tkinter widget which helps to enter

multiple lines of text or inputs.

**Q2. Explain different types of buttons used in Tkinter.**

Different types of button in Tkinter are:

**1.** **Active Background Button**: It represents the background of

the button when the mouse hover the button.

**2.** **Active Foreground Button**: It represents the font color of the

button when the mouse hover the button.

**3.** **Image Button:** A button in which an image is displayed.

**4.** **Radio Button**: Button where there are options to select from

and one can only be selected.

5. **Check Button**: Button in which many options are given and

many options can be ticked or choose.

**6. Underlined Button:** Button whose text is underlined.

**7. Highlighted Color Button:** The color of the focus highlight

when the button has focus.

**Q3. What is message box? What are the different types of messages**

**available in tk?**

The tkMessageBox module is used to display message boxes in your

applications. This module provides a number of functions that you

can use to display an appropriate message.

The different types of message avialbale in tk are:

1. skokcancel (title=None, message=None, \*\*options)

# Ask if operation should proceed;

# return true if the answer is ok.

2. askquestion (title=None, message=None, \*\*options)

# Ask a question.

3. askretrycancel (title=None, message=None, \*\*options)

# Ask if operation should be retried;

# return true if the answer is yes.

4. askyesno (title=None, message=None, \*\*options)

# Ask a question; return tr

5. askyesnocancel (title=None, message=None, \*\*options)

# Ask a question; return true

# if the answer is yes, none if cancelled.

6. showerror (title=None, message=None, \*\*options)

# Show an error message.