**Mishan Regmi**

**1841030**

**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.

1. **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.