



PYTHON GUI DEVELOPMENT

ANSWER ALL THE QUESTIONS

1. What is the output of the following code?

```
>> print("Hello World")
```

- A. Print
- B. Hello World
- C. "Hello World"
- D. "Print"

2. What are comments in Python?

- A. They are programmer-readable explanation or annotation in the source code of a computer program.
- B. They verbal or written remark expressing an opinion or reaction.
- C. They are logical blocks used within programming.
- D. I don't know

3. What is the output of the following code?

```
>>> fruits = ["apple", "banana", "cherry"]  
>>> for x in fruits:  
    print(x)
```

- A. Apple, cherry
- B. Banana, Apple
- C. Cherry, Banana
- D. apple, banana, cherry

4. Which one of the following is not a data type in python?

- A. Float
- B. Tuple
- C. Decimal
- D. List

5. What is the difference between a tuple and a list?

- A. A list is a data structure in Python that is a mutable, or changeable, ordered sequence of elements while a tuple is a data structure in Python that is an immutable or an unchangeable, ordered sequence of elements
- B. A list is a data structure in Python that is an immutable or an unchangeable, ordered sequence of elements while a tuple is a data structure in Python that is a mutable, or changeable, ordered sequence of elements

- C. A list is a data structure in Python that is a mutable, or changeable, ordered sequence of elements while a tuple is a whole number, positive or negative, without decimals, of unlimited length
- D. A list is a whole number, positive or negative, without decimals, of unlimited length while a tuple is a tuple is a data structure in Python that is an immutable or an unchangeable, ordered sequence of elements

6. Which among the following library is used for python GUI development?

- A. Numpy
- B. Tkinter
- C. Date-time
- D. Pandas

7. What are widgets?

- A. They are elements of Graphical User Interface (GUI) that displays/illustrates information or gives ways for the user to interact with the OS.
- B. They are elements that can contain text and can perform an action when clicked
- C. They are rectangular regions used to group related elements or provide padding between elements
- D. No idea

8. What is the difference between a button widget and a label widget?

- A. Label widgets are used to display text or images while button widgets are used to get a little bit of text from a user
- B. Button widgets are used to display clickable buttons while Label widgets are used to display text or images
- C. Button widgets are used to display clickable buttons while label widgets are widgets in Python that are a mutable, or changeable, ordered sequence
- D. None of the above

9. What is a spinbox?

- A. A spinbox is an element that can contain text and can perform an action when clicked
- B. A spinbox is a widget that displays/illustrates information or gives ways for the user to interact with the OS.
- C. The Spinbox widget is a variant of the standard Tkinter Entry widget, which can be used to select from a fixed number of values.
- D. None of the above

10. Which of the following lines of code has the correct syntax for creating a button?

- A. `label_a = tk.Label(root, text="I'm in Frame A")`
`label_a.pack()`
- B. `label_b = tk.label(root, text="I'm in Frame B")`
`label_b.pack()`
- C. `label_b = tk.Button(root, text="I'm in Frame B")`
`label_btn.pack()`
- D. `label_b = tk.Button(root, text="I'm in Frame B")`

```
label_b.pack()
```

11. What is a dictionary as used in Python programming?

- A. It is a list that contain words of a language and gives their meaning
- B. A dictionary is a collection which is unordered, changeable and does not contain duplicates.
- C. A dictionary is a data structure in Python that is an immutable or an unchangeable, ordered sequence of elements
- D. I don't know

12. Which one of the following is not used to adjust frame appearance?

- A. tk.SUNKEN
- B. tk.FLAT
- C. tk.RAISED
- D. tk.REDUSED

13. What are python functions?

- A. A function is a block of code which only runs when it is called.
- B. Functions are logical blocks used within programming.
- C. A function is a collection which is unordered, changeable and does not contain duplicates.
- D. None of the above

14. What is the out put of the following code?

```
>>>def add_two_numbers(a, b):  
    add = a + b  
    print(add)
```

```
>>>add two numbers(9, 10)
```

- A. 19
- B. -19
- C. 1
- D. Error

15. What lines contain errors in the following code.

```
import tkinter as Tk
```

```
window = TK.Tk()
```

```
frame_a = tk.Frame()
```

```
frame_b = tk.Frame()
```

```
label_a = tk.Label(master=frame_a, text="I'm in Frame A")
```

```
label a.pack()
```

label_b = tk.Label(master=frame_b, text='I'm in Frame B')

label b.pack()

frame_a.pack()

frame_b.pack()

window.mainloop()

- A. Line 1, 2, 6 and 7
- B. Line 6, 7, 8 and 1
- C. Line 7, 9, 10 and 1
- D. Line 1, 6, 8 and 2