



## Python Basics quiz

6 out of 6 correct

1. Fill in the blank:

Variables in python are \_\_\_\_\_ in nature.

- ☐ Static
- ☐ Unstable
- ☒ Dynamic
- ☐ None of the above

**Explanation:** In python variables are dynamic in nature, thus their type can change at runtime. This means that a variable can hold a value of one type, and then later be assigned a value of a different type.

2. Which one of the following variable names is correct?

- ☒ Vari\_able
- ☐ Un-stable
- ☐ Dynamic#
- ☐ while

**Explanation:** While naming a variable we cannot use # or - in naming variable thus we cannot use Un-stable or Dynamic# as a variable name. Since restricted keywords cannot be used so while cannot be used as variable name. Hence, Vari\_able is the correct option. To answer further questions follow the given code: `x = 10 y = 20 if x>y: x+=1 y = 'String Error'`

3. In the above code which one of the following is variable:

- ☐ x
- ☐ v
- ☐ if
- ☒ Both x and y

4. What will be the output of `print(x)`?

- ☒ 10
- ☐ 20
- ☐ 30
- ☐ 100

**Explanation:** Here, the if statement is not executed as `x<y`. Thus, the output will be 10

5. What will be the output of `print(y)`?

- ☐ 10
- ☐ 20



☐ 30

☒ 'String Error'

**Explanation:** Here, due to the dynamic nature of variable in python, in y 20 is replaced by string variable 'String Error'. Thus, the output will be 'String Error'.

6. Read the following statements carefully:

- (i) Local variables are defined within a function and are only accessible within that function.
- (ii) Global variables are defined outside of any function and can be accessed from anywhere in the program.
- (iii) Local variables are defined within a function and can be accessed from anywhere in the program.
- (iv) Global variables are defined outside of any function and are only accessible within that function.

From the above which of the following set of statements are correct?

☒ (iii), (ii)

☐ (i), (iv)

☐ (i), (ii)

☐ None of the above

**Explanation:** Local variables are defined within a function and are only accessible within that function, global variables are defined outside of any function and can be accessed from anywhere in the program.

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