

Section 1: Multiple Choice Questions (MCQs)

1. What is the purpose of a programming language?
 - ☐ a) To make coffee
 - ☒ b) To communicate with computers
 - ☐ c) To paint pictures
 - ☐ d) To browse the internet
2. Which of the following is a Python variable naming convention?
 - ☐ a) Variable names can start with a number
 - ☐ b) Variable names can contain spaces
 - ☒ c) Variable names are case-sensitive
 - ☐ d) Variable names cannot include underscores
3. What does the `print()` function do in Python?
 - ☐ a) Saves a file
 - ☒ b) Displays output to the screen
 - ☐ c) Takes user input
 - ☐ d) Terminates the program
4. What is the correct syntax to take user input in Python?
 - ☒ a) `input("Enter your name:")`
 - ☐ b) `scan("Enter your name:")`
 - ☐ c) `read("Enter your name:")`
 - ☐ d) `get("Enter your name:")`
5. Which of the following is used for loops in Python?
 - ☐ a) `for`
 - ☐ b) `while`
 - ☒ c) Both a and b
 - ☐ d) None of the above
6. What symbol is used to indicate a comment in Python?
 - ☐ a) `//`
 - ☐ b) `/* */`
 - ☒ c) `#`
 - ☐ d) `--`
7. Which data type is used to store a sequence of characters in Python?
 - ☐ a) `int`
 - ☐ b) `float`
 - ☒ c) `string`

- ☐ d) boolean
8. What keyword is used to define a function in Python?
- ☐ a) define
 - ☐ b) func
 - ☒ c) def
 - ☐ d) function
9. What will `len([1, 2, 3, 4])` return?
- ☐ a) 3
 - ☒ b) 4
 - ☐ c) 5
 - ☐ d) Error
10. How do you create an infinite loop in Python?
- ☒ a) `while True:`
 - ☐ b) `for i in range(1000000):`
 - ☐ c) `while (i < 10):`
 - ☐ d) `loop forever:`
11. What will be the output of `print(3 * "abc")`?
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- ☐ a) `abcabcabc`
 - ☐ b) `abc*3`
 - ☒ c) `abc abc abc`
 - ☐ d) Error
12. Which of the following statements about Python lists is true?
- ☐ a) Lists are immutable
 - ☒ b) Lists can store different data types
 - ☐ c) Lists must have unique elements
 - ☐ d) Lists cannot be modified once created
13. What will `bool([])` return?
- ☐ a) `True`
 - ☒ b) `False`
 - ☐ c) `None`

- d) Error

14. How do you correctly open a file named `data.txt` for writing in Python?

- a) `open("data.txt", "r")`
- ☒ b) `open("data.txt", "w")`
- c) `open("data.txt", "a")`
- d) `open("data.txt", "x")`

15. What does `list(range(3))` return?

- ☒ a) `[0, 1, 2]`
- b) `[1, 2, 3]`
- c) `[0, 1, 2, 3]`
- d) `range(3)`