## **Python Variable Types - Questions**

- 1. What are the different primitive data types in Python, and provide an example for each.
- 2. What is the difference between mutable and immutable variables in Python? Provide two examples of each.
- 3. Explain the difference between local and global variables in Python. How can you modify a global

variable inside a function?

4. What is a list in Python, and how is it different from a tuple? When should you use a list over a

tuple?

- 5. What is a dictionary (dict) in Python? How does it differ from other data structures like lists or sets?
- 6. What are NoneType variables in Python? Provide an example of how and when you would use

None.

- 7. What is the difference between set and list data types in Python? Can a set contain duplicate values?
- 8. How do you create a variable of a specific type in Python, and how can you change its type later?

Provide examples of typecasting.

- 9. What are the different ways to assign multiple variables at once in Python? Provide an example.
- 10. What is the difference between shallow copy and deep copy when working with variables in Python? Provide examples.

## **Python Variable Assignment and Printing Practice Questions**

- 1. How do you assign a value to a variable in Python? Provide an example.
- 2. How do you assign values to multiple variables in one line in Python?
- 3. How do you assign the same value to multiple variables at once?
- 4. Write a Python code to swap the values of two variables.
- 5. How can you assign a variable with a string value and print it?
- 6. Assign an integer and a float value to two variables, then print their sum.
- 7. How can you use f-string to print a message that includes a variable's value?
- 8. What is the difference between printing the value of a variable and using a return statement? Write a code example to explain.
- 9. How do you use the input() function to assign a user-input value to a variable and then print it?
- 10. Write a Python code that assigns two numbers to variables and prints the result of their multiplication.
- 11. Assign a string and a number to two variables and print them using a single print() statement.
- 12. How can you assign a list of numbers to a variable and print the third element?

- 13. How do you use the type() function to check the data type of a variable and print it?
- 14. Write a Python program to assign a boolean value to a variable and print its value.
- 15. Create a program that assigns your first name and last name to two variables, then prints them

as a full name.