1. What is a Python script, and how is it executed?
2. Explain the role of the Python Virtual Machine (PVM).
3. Difference between interactive mode and script mode in Python.
4. What is an Integrated Development Environment (IDE) in Python? Give two examples.
5. Define Python identifiers.
6. List five rules for naming identifiers in Python.
7. Can an identifier begin with an underscore? Give an example.
8. Why are Python identifiers case-sensitive?
9. What does isidentifier() method do? Give an example.
10. What naming convention is recommended for class names in Python?
11. Why should we avoid using double underscores at the start and end of an identifier?
12. What is a Python keyword? Give three examples.
13. How do you check if a word is a Python keyword programmatically?
14. What is dynamic typing in Python?
15. Difference between initialization and assignment in Python.
16. Explain int, float, and complex numeric types.
17. What prefix is used to represent a binary number in Python?
18. Write an example of a hexadecimal number in Python.
19. What is scientific notation in floats? Give an example.
20. What is coercion in Python type conversion?
21. Explain implicit vs. explicit type conversion in Python.
22. What is the role of the id() function in Python?
23. What is the difference between mutable and immutable data types?
24. Why is True a keyword but true is not in Python?
25. Can Python keywords be used as identifiers? Why or why not?
26. Difference between indexing and slicing in strings.
27. Write a Python program to concatenate two strings.
28. Write a Python program to check if a substring exists in a string.
29. What is an escape sequence? Give two examples.
30. How can you ignore escape sequences in a string?
31. Write a Python program to count how many times a word appears in a string.
32. What does the split() method do in Python?
33. What does the join() method do in Python?
34. Give examples of any three string methods and their outputs.
35. How can you declare a multi-line string in Python?