

Questions:

1. Write a Python program to take user input (name, age) and display them using print() and format().
2. Write a program to show different ways of string formatting using .format(), f-strings, and %.
3. Write 3 examples for valid Python variable naming conventions.
4. Write a single-line comment and a multiline comment in Python explaining a simple program.
5. Declare variables of different data types (int, float, str, bool) and print their types.
6. Convert a float into int and string into int using type casting and display the result.
7. Write a program to demonstrate 3 string methods (e.g., upper(), lower(), replace()).
8. Write a Python program to slice the string "PYTHON PROGRAMMING" to print only THON PRO.
9. Write a program that performs all arithmetic operations on two numbers and displays the results.
10. Write a program using assignment operators (+=, -=, *=, /=, etc.).
11. Write a program to compare two numbers using comparison operators (==, !=, <, >, <=, >=).
12. Write a program using logical operators to check multiple conditions (and, or, not).
13. Write a program to demonstrate identity operators (is, is not).
14. Write a program to demonstrate membership operators (in, not in) with strings or lists.
15. Write a program to check whether a number is even or odd using bitwise AND & operator.
16. Write a program to perform bitwise OR |, AND &, XOR ^ on two numbers.
17. Write a program to use bitwise NOT ~ and show the output.
18. Write a program using left shift << and right shift >> operators on a number.
19. Write a Python program to check whether a string starts with a vowel using string slicing and membership operator.
20. Write a program to take a string input from the user, reverse it using slicing, and print it.