Exercise

Functions & Arguments – 25 Python Exercises

Basic Function Definitions

1. Write a function that returns the square of a number.

2. Create a function that returns the cube of a number.

3. Write a function that prints "Hello, [name]".

4. Write a function that adds two numbers.

5. Write a function that returns the larger of two numbers.

6. Write a function that checks if a number is even or odd.

7. Create a function that multiplies three numbers.

8. Write a function that returns the absolute value of a number.

9. Create a function that takes a list and returns the sum of all elements.

10. Write a function that calculates the factorial of a number.

Default and Keyword Arguments

11. Create a function that greets a person. If no name is given, use "Guest".

greet("Alice") ➞ Hello, Alice

greet() ➞ Hello, Guest

12. Write a function that takes a name and age, and prints them using keyword arguments.

13. Create a function with a default discount value. If not provided, use 10%.

14. Write a function to calculate the area of a rectangle. Use default values for width and height.

*args and **kwargs

16. Create a function that sums any number of numbers using *args.

17. Write a function that finds the maximum value among *args.

18. Create a function that prints all key-value pairs using **kwargs.

19. Write a function that accepts both *args and **kwargs and prints them.

20. Create a function that multiplies all values passed using *args.