

1. Even or Odd Checker

Check whether a number is even or odd.

Input:

num = 7

Output:

Odd

2. Simple Interest Calculator

Calculate simple interest using

$$SI = (P \times R \times T) / 100$$

Input:

P = 10000, R = 5.5, T = 2

Output:

Simple Interest = 1100.0

3. Vowel or Consonant

Check whether a given character is a vowel.

Input:

ch = 'a'

Output:

Vowel

4. Largest of Two Numbers

Compare two integers and print the larger one.

Input:

a = 15, b = 20

Output:

20 is larger

5. Positive, Negative or Zero

Check whether a number is positive, negative, or zero.

Input:

num = -4

Output:

Negative

6. Sum of First N Numbers

Calculate sum from 1 to N using a loop.

Input:

N = 5

Output:

Sum = 15

7. Multiplication Table

Print multiplication table of a number up to 10.

Input:

num = 3

Output:

3 6 9 12 15 18 21 24 27 30

8. Count Digits in a Number

Count number of digits using while loop.

Input:

num = 4567

Output:

Digits = 4

9. Reverse a Number

Reverse a given integer.

Input:

num = 123

Output:

321

10. List Sum

Find the sum of elements in a list.

Input:

arr = [2, 4, 6, 8]

Output:

Sum = 20

11. Search Element in List

Check whether an element exists in a list.

Input:

arr = [10, 20, 30], key = 20

Output:

Element Found

12. Break Statement

Stop printing numbers when value reaches 5.

Input:

N = 10

Output:

1 2 3 4

13. Continue Statement

Skip printing number 5.

Input:

N = 7

Output:

1 2 3 4 6 7

14. Function to Add Two Numbers

Write a function that returns sum of two numbers.

Input:

a = 4, b = 6

Output:

Sum = 10

15. Function with Parameters

Create a function to calculate square of a number.

Input:

num = 5

Output:

Square = 25

16. Return Value Example

Function returns maximum of two numbers.

Input:

a = 9, b = 3

Output:

Maximum = 9

17. Local Variable Example

Demonstrate a local variable inside a function.

Input:

function call

Output:

Local variable accessed

18. Global Variable Example

Modify a global variable inside a function.

Input:

count = 5

Output:

Updated count = 6

19. Recursive Factorial

Calculate factorial using recursion.

Input:

num = 5

Output:

Factorial = 120

20. Palindrome Check

Check whether a string is palindrome.

Input:

text = "madam"

Output:

Palindrome

21. Count Vowels in String

Count number of vowels.

Input:

text = "hello"

Output:

Vowels = 2

22. Average of Numbers

Calculate average using function.

Input:

numbers = [10, 20, 30]

Output:

Average = 20.0

23. Boolean Operator Check

Print "Eligible" if age ≥ 18 AND citizen is True.

Input:

age = 19, citizen = True

Output:

Eligible

24. Password Strength Check

Password is strong if length ≥ 8 .

Input:

password = "abc12345"

Output:

Strong Password

25. Loop Execution Counter

Count how many times a loop executes.

Input:

N = 4

Output:

Loop executed 4 times