

Sequence-Based Python Program Questions (1–30)

1. Write a Python program to find the sum of two numbers.

Inputs: num1, num2

Output: sum

2. Write a Python program to calculate the area of a circle.

Formula: area = $3.14 * r * r$

3. Write a Python program to convert temperature from Celsius to Fahrenheit.

Formula: F = $(C * 9/5) + 32$

4. Write a program to calculate simple interest.

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

5. Write a Python program to find the average of three numbers.

6. Write a Python program to convert kilometers to meters and centimeters.

1 km = 1000 m, 1 m = 100 cm

7. Write a program to calculate the perimeter of a rectangle.

Perimeter = $2 \times (L + B)$

8. Write a program to swap two numbers using a temporary variable.

9. Write a program to calculate the total and percentage of 5 subject marks.

10. Write a program to convert days to weeks and days.

Example: 10 days = 1 week + 3 days

11. Write a program to compute the product of three numbers.

12. Write a program to convert minutes into hours and minutes.

Example: 150 = 2 hours 30 minutes

13. Write a program to calculate the area of a triangle.

Area = $(1/2) \times \text{base} \times \text{height}$

14. Write a program to compute the square and cube of a number.

15. Write a Python program to calculate GST on a product.

GST = $(\text{original_price} \times \text{GST\%}) / 100$

16. Write a Python program to convert hours into minutes and seconds.

(Example: 2 hours = 120 minutes = 7200 seconds)

17. Write a program to calculate total bill amount including discount.

Total = amount – $(\text{amount} \times \text{discount}/100)$

18. Write a program to convert inches to feet and inches.

(Example: 45 inches = 3 feet 9 inches)

19. Write a program to compute the circumference of a circle.

Circumference = $2 \times 3.14 \times r$

20. Write a program to calculate the volume of a cube.

Volume = side^3

21. Write a program to convert rupees into paise.

1 Rupee = 100 Paise

22. Write a program to calculate the speed of a vehicle.

Speed = Distance / Time

23. Write a Python program to convert seconds into hours, minutes, seconds.

24. Write a program to calculate the grade of a student based on percentage (Without using if).

(Just accept marks and print percentage only → sequence-based)

25. Write a program to find the total cost when quantity and cost per item are given.

26. Write a program to convert meters into kilometers and remaining meters.

27. Write a Python program to calculate EMI (formula-based).

28. Write a program to calculate the BMI of a person.

BMI = weight / (height*height)

29. Write a program to convert a given number of months into years and months.

30. Write a Python program to calculate electricity bill (simple formula, no conditions).

Bill = Units × Rate