

Question 1: Write a Program to find the Area of a Rectangle.

Question 2: Write a Program to find Perimeter of a Rectangle

Question 3: Write a Program to find Area of a Circle

Question 4: Write a Program to find Circumference of a Circle

Question 5: Write a Program to find Area of a Triangle

Question 6: Write a Program to find Simple Interest

Question 7: Write a Program to find Celsius to Fahrenheit Conversion

Question 8: Write a Program to find Fahrenheit to Celsius Conversion

Question 9: Write a Program to find Volume of a Cube

Question 10: Write a Program to find Volume of a Sphere

Question 11: Write a Program to find Average of Three Numbers

Question 12: Write a Program to find Speed, Distance, Time

Question 13: Write a Program to find Kinetic Energy

Question 14: Write a Program to find Potential Energy

Question 15: Write a Program to find Volume of a Cylinder

Question 16: Write a Program to find Total Surface Area of a Cube

Question 17: Write a Program to find Area of a Trapezoid

Question 18: Write a Program to find Pythagorean Theorem (Hypotenuse)

Question 19: Write a Program to find Electrical Power (`power = voltage * current;`)

Question 20: Write a C program to find the greater between three nos without using any conditional operator and conditional statement.

Question 21: Write a C program to accept two integers and check whether they are equal or not.

Question 22: Write a C program to find the eligibility of admission for a professional course based on the following criteria

Question 23 Write a program to print the Electricity bill of a given customer

Question 24 .program to check whether a triangle can be formed by the given value for the angles.

Question 25 Program in C to read any Month Number in integer and display the number of days for this month

Question 26. Program in C to read any Month Number in integer and display the number of days for this month

Question 27. Write a C program to check whether a given number is positive or negative

Question 28 Write a C program to find whether a given year is a leap year or not

Question 29. Write a C program to read the age of a candidate and determine whether it is eligible for casting his or her own vote.

Question 30. Write a C program to read the value of an integer m and display the value of n is 1 when m is larger than 0, 0 when m is 0 and -1 when m is less than 0.

Question 31. Write a C program to accept the height of a person in centimeter and categorize the person according to their height.

Question 32. Write a C program to find the largest of three numbers

Question 33. Write a C program to accept a coordinate point in a XY coordinate system and determine in which quadrant the coordinate point lies

Question 34. Write a program to find the Roots of quadratic equation .

Question 35. Write Program Simple calculator using switch case

Question 36. Problem: Simulate a very basic ATM. Assume a fixed initial balance of 1000.00. Ask the user if they want to 'D' (Deposit) or 'W' (Withdraw).

- If 'D', ask for the deposit amount and add it to the balance.
- If 'W', ask for the withdrawal amount. Check if the withdrawal amount is less than or equal to the balance. If yes, proceed with withdrawal; otherwise, print "Insufficient balance."
- For any other input, print "Invalid choice."
- After the transaction (or error), always print the current balance.

Question 37 : Create a simple menu for a program that calculates the area of different shapes. The menu should offer:

1. Calculate Area of Circle
2. Calculate Area of Rectangle
3. Exit Ask the user for their choice. Based on the choice, prompt for necessary dimensions and calculate the area. Use a switch statement for menu handling. Assume $\pi=3.14159$.

Question 38 : A store offers discounts based on the total purchase amount and whether the customer is a premium member.

- Premium Member:
 - Purchase ≥ 1000 : 15% discount

- Purchase ≤ 1000 : 10% discount
- Regular Customer:
 - Purchase ≥ 1000 : 5% discount .
- Purchase ≤ 1000 : No discount

Write a C program that takes the purchase amount and a character indicating membership status ('P' for Premium, 'R' for Regular) as input. Calculate and print the final payable amount after applying the discount.

Question 39 :Write a program Check a Loan Eligibility in c .

Question 40 :Write a program Triangle is isosceles, scalene, or equilateral .

Question 41. Write a program Print factorial of a number.

Question 42. Write a program Reverse a given number.

Question 43 Write a Program Find the sum of digits of a number.

Question 44 Write a program Print Fibonacci series up to N terms.

Question 45 Write a program Find GCD (HCF) of two numbers using loop.

Question 46 Write a Program Find GCD (HCF) of two numbers using loop.

Question 47. Write a program Print a right-angled triangle of stars.

Question 48 .Write a Program Print a right-angled triangle of numbers.

Question 49. Write a Program Print an inverted triangle of stars.

Question 50. Write a Program Print a pyramid pattern of stars.

Question 51 Write a Program Print a diamond pattern using stars.

Question 52. Write a Program Print Floyd's triangle.

Question 53 Write A program Print Pascal's triangle.

Question 54 Write a Program Print a square pattern of stars.

Question 55. Write a Program Print a hollow square of stars.

Question 56. Display all Armstrong numbers between 1 and 1000.

Question 57. Check if a number is an Armstrong number.

Question 58 Count the number of vowels in a string using a loop.

Question 59. Convert lowercase characters to uppercase in a string using loop.

Question 60. Find the largest digit in a number.

Question 61. Find the smallest digit in a number.

Question 62 Count the frequency of each digit in a number.

Question 63 Find the power of a number using loop (like x^y).

Question 64. Check if a number is a strong number.

Question 65. Print all strong numbers between 1 and 1000.

Question 66. Generate a pattern like 1, 12, 123, ... up to N lines.

Question 67. Generate a pattern like 1, 22, 333, ... up to N lines.

Question 68. Generate a binary triangle pattern.

Question 69. Generate a checkerboard pattern (1 0 1 0...).

Question 70. Print butterfly pattern.

Question 71. Print zigzag pattern of stars.

Question 72. Print hollow pyramid pattern.

Question 73 .Print concentric square number pattern.

Question 74. Create a simple digital clock (HH:MM:SS) that runs using loops for 10 seconds.

Question 75. Write a program to find the maximum and minimum element in an array.

Question 76 Write a program to search for an element in an array (linear search).

Question 77. Write a program to reverse an array.

Question 78. Write a program to copy one array to another.

Question 79. Write a program to count even and odd elements in an array.

Question 80. Write a program to count positive, negative, and zero values in an array.

Question 81. Write a program to insert an element at a specific position in an array.

Question 82. Write a program to sort an array using bubble sort.

Question 83. Write a program to sort an array using selection sort.

Question 84. Write a program to sort an array using insertion sort.

Question 85. Write a program to perform binary search on a sorted array.

Question 86. Write a program to merge two sorted arrays into a single sorted array.

Question 87. Write a program to delete an element from an array.

Question 88. Write a program to remove duplicates from an array.

Question 89. Write a program to count frequency of each element in the array.

Question 90. Write a program to find the second largest element in an array.

Question 91. Write a program to find the second smallest element in an array.