

**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**

**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  $\geq 1000$ : 15% discount
  - Purchase  $< 1000$ : 10% discount
- Regular Customer:

- **Purchase  $\geq 1000$ : 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 .**