

Computer Programming Lab (CSE104L)

Lab 4

- Q1. You have three ropes each being 10m long. You use the ropes to make a circle, a regular hexagon and an equilateral triangle. Write a program in C to determine the area of each of these figures.
- Q2. The perimeter of a circle, square and an equilateral triangle is the same and is taken from the keyboard. Write a program in C to calculate the area of these three.
- Q3. Write a C program to input sides of a triangle and check whether triangle is valid or not.
- Q4. Write a C program to find all roots of a quadratic equation. Read values of a, b and c from the keyboard and then print roots.
- Q5. Write a C program to input electricity unit charge and calculate the total electricity bill according to the given condition:
For first 50 units Rs. 0.50/unit
For next 100 units Rs. 0.75/unit
For next 100 units Rs. 1.20/unit
For unit above 250 Rs. 1.50/unit
An additional surcharge of 20% is added to the bill.
- Q6. A 30 kg boulder was initially moving at a velocity of 10 m/s, in order to stop it 10 N of constant retarding force is applied on it. After how long will the boulder stop?

Write the following programs in C using Conditional Operator and conditional statement both

- Q7. Take two numbers as user input and print the maximum number.
- Q8. Take any number as user input and print whether it is an even number or odd.
- Q9. Read three numbers from the keyboard. Find the maximum and second maximum of these numbers.