Algorithm Development and Programming Fundamentals
MCA SEM-1

Conditional Statements

1. Write a program to check whether an entered number is positive, negative or zero. Take integer value from the user.

2. An electric power distribution company charges its domestic consumers as follows:

Consumption Units	Rate of Charge
1-100	Rs. 0.75 per unit
101-300	Rs. 75 plus Rs. 1.00 per unit excess of 100
301-500	Rs. 275 plus Rs. 1.50 per unit excess of 300
500 above	Rs. 575 plus Rs. 1.75 per unit excess of 500

   Write a program that reads customer number & power consumed and print the amount to be paid by the customer. Note that output should be well formatted with meaningful calculation displayed as invoice.

3. Write a program to find out the commission earned by a salesman. Input salesman no, salesman name, sales amount, and salesman type (P/D/H). If salesman type=”P” then commission rate=9%, else if salesman type=”D” then commission rate= 5%, else if salesman type=”H” than commission rate= 2%.

   O/P: -

   Salesman report

   Salesman number :-
   Salesman name :-
   Sales amount:-
   Commission (%) :-
   Commission (Rs.) :-

   Net amount :-
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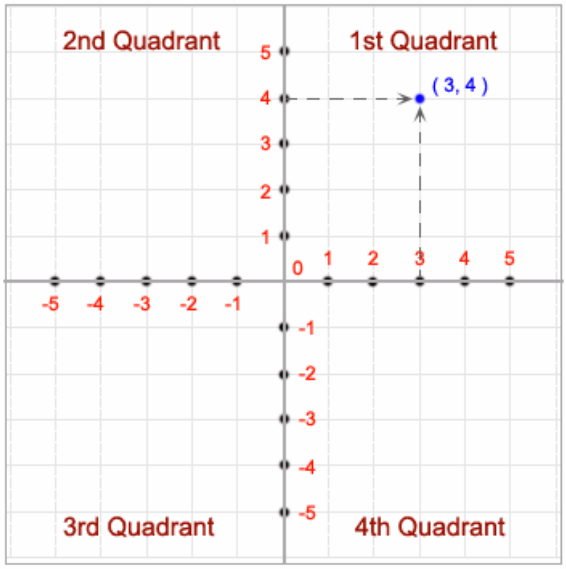
4. Write a C program to accept a coordinate point in a XY coordinate system and determine in which quadrant the coordinate point lies.



5. Write a C to program to check whether the given number is Armstrong or not.

6. To check whether the given number is palindrome or not.

7. Write a C program to check whether a triangle is Equilateral, Isosceles or Scalene.

   Equilateral triangle: An equilateral triangle is a triangle in which all three sides are equal. In the familiar Euclidean geometry, equilateral triangles are also equiangular; that is, all three internal angles are also congruent to each other and are each 60°.

   Isosceles triangle: An isosceles triangle is a triangle that has two sides of equal length.

   Scalene triangle: A scalene triangle is a triangle that has three unequal sides, such as those illustrated above.