

Algorithm Development and Programming Fundamentals

MCA SEM-1

Conditional Statements

1. 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.

2. 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 :-

3. Write a C program to accept the height of a person in centimeters and categorize the person according to their height.

Expected Output :

The person is Low in Height / The person is Average in Height / The person is Tall in Height

4. Write a C program to read temperature in centigrade and display a suitable message according to the temperature state below:

Temp < 0 then Freezing weather
Temp 0-10 then Very Cold weather
Temp 10-20 then Cold weather
Temp 20-30 then Normal in Temp
Temp 30-40 then Its Hot
Temp >=40 then Its Very Hot

5. Write a C program to check whether a triangle can be formed with the given values for the angles.
6. Write a program in C to read any Month Number in integer and display the number of days for this month.
7. Write a C program for reading any Month Number and displaying the Month name as a word.