**If – else Coding Statements**

1. Write a program to check whether a number is divisible by 5 and 11 or not
2. Write a program to check whether a year is leap year or not
3. Write a program to input any character and check whether it is alphabet, digit or special character
4. Write a program to check whether a character is uppercase or lowercase alphabet
5. Write a program to input angles of a triangle and check whether triangle is valid or not
6. Write a program to calculate profit or loss
7. Write a program to input basic salary of an employee and calculate its Gross salary according to following:

Basic Salary <= 10000 : HRA = 20%, DA = 80%

Basic Salary <= 20000 : HRA = 25%, DA = 90%

Basic Salary > 20000 : HRA = 30%, DA = 95%

1. While purchasing certain items, a discount of 10% is offered if the quantity purchased is more than 100. If quantity and price per item are input through the keyboard, write a program to calculate the total expenses
2. A library charges a fine for every book returned late. For first 5 days the fine is 50 paise, for 6-10 days fine is one rupee and above 10 days fine is 5 rupees. If you return the book after 30 days your membership will be cancelled. Write a program to accept the number of days the member is late to return the book and display the fine or the appropriate message
3. Write a java program to read gender (M/F) and print the corresponding gender using a switch statement
4. In a company, worker efficiency is determined on the basis of the time required for a worker to complete a particular job. If the time taken by the worker is between 2 – 3 hours, then the worker is said to be highly efficient. If the time required by the worker is between 3 – 4 hours, then the worker is ordered to improve speed. If the time taken is between 4 – 5 hours, the worker is given training to improve his speed, and if the time taken by the worker is more than 5 hours, then the worker has to leave the company. If the time taken by the worker is input through the keyboard, find the efficiency of the worker
5. Write a program to input electricity unit charges and calculate total electricity bill according to the given condition:

For first 50 units Rs. 0.50/unit

For next 150 units Rs. 0.75/unit

For next 250 units Rs. 1.20/unit

For unit above 250 Rs. 1.50/unit

An additional surcharge of 20% is added to the bill

1. A company insures its drivers in the following cases:

If the driver is married

If the driver is unmarried, male & above 30 years of age

If the driver is unmarried, female & above 25 years of age

1. Write a program to create simple calculator using switch Statement
2. Rewrite the following program using ternary operator

String grade;  
if(marks >= 90)

{  
grade = “A”;  
} else if( marks >= 80 ) {  
grade = “B”;  
} else {  
grade = “C”;  
}

1. Evaluate the value of n if the value of p=5 and q=19:

int n = (q-p)>(p-q)?(q-p):(p-q);

1. Write a java program that accepts three numbers from the user and check if numbers are in "increasing" or "decreasing" order
2. Write a java program to take values of length and breadth of a rectangle from user and check if it is square or not
3. Write a program to print absolute value of a number entered by user
4. Write a program to find the number of days in a month
5. If the ages of Ram, Shyam and Ajay are input through the keyboard, write a program to determine the youngest of the three
6. Given length and breadth of a rectangle, write a program to find whether the area of rectangle is greater than its perimeter.