IF..... ELSE

Question 1:

Even or Odd

Write a program that asks the user to enter a number and displays whether entered number is an odd number or even number.

```
import java.util.Scanner;
public class EvenOdd
    public static void main(String[] args)
        int number;
        // Create a Scanner object to read input.
        Scanner sc = new Scanner(System.in);
        // Get number from the user.
        System.out.print("Enter an integer: ");
        number = sc.nextInt();
        // Determine even or odd.
        if (number % 2 == 0)
            System.out.println(number +" is even");
        }
        else
        {
            System.out.println(number +" is odd");
        }
    }
}
```

Question 2:

Absolute value

Write a program that asks the user to enter a number and displays the absolute value of that number.

Question 3:

Discount and Revenue

Revenue can be calculated as the selling price of the product times the quantity sold, i.e. revenue = price \times quantity. Write a program that asks the user to enter product price and quantity and then calculate the revenue. If the revenue is more than 5000 a discount is 10% offered. Program should display the discount and net revenue.

Question 4

Largest Number

Write a program that asks the user to enter numbers in three variables and then displays the largest number.

Question 5

Positive, negative or zero

Write a program that prompts the user to input a number. The program should then output the number and a message saying whether the number is positive, negative, or zero.

Question 6

Valid Triangle

A triangle is valid if the sum of all the three angles is equal to 180 degrees. Write a program that asks the user to enter three integers as angles and check whether a triangle is valid or not.

Question 7:

Leap Year

Any year is input by the user. Write a program to determine whether the year is a leap year or not.

Leap Years are any year that can be evenly divided by 4. A year that is evenly divisible by 100 is a leap year only if it is also evenly divisible by 400.

```
Example:
      1992
             Leap Year
             Leap Year
      2000
      1900
             NOT a Leap Year
 import java.util.Scanner; // Needed for the Scanner class
public class Leapyear
   public static void main(String[] args)
      int year; // holds a year
      // Create a Scanner object for keyboard input.
      Scanner sc = new Scanner(System.in);
      // Get the year.
      System.out.print("Enter a year : ");
      year = sc.nextInt();
      // Determine whether the year is leap year.
      if ((year % 4 == 0) && ((year % 400 == 0) || (year % 100 != 0)))
         System.out.println("A leap year");
      }
      else
         System.out.println("Not a leap year");
   }
}
```

Question 8

Telephone Bill Write a program to calculate the monthly telephone bills as per the following rule: Minimum Rs. 200 for up to 100 calls. Plus Rs. 0.60 per call for next 50 calls. Plus Rs. 0.50 per call for next 50 calls. Plus Rs. 0.40 per call for any call beyond 200 calls. import java.util.Scanner; public class TelephoneBill public static void main(String[] args) int numberOfCalls; double bill; // Create a Scanner object to read input. Scanner console = new Scanner(System.in); // Get value from the user. System.out.print("Enter number of calls: "); numberOfCalls = console.nextInt(); // Calculate bill. if (numberOfCalls <= 100)</pre> bill = 200;

bill = 200 + (numberOfCalls - 100) * 0.60;

bill = 200 + 50 * 0.60 + 50 * 0.50

System.out.println("The bill is Rs. " + bill);

+ (numberOfCalls - 150) * 0.50;

+ (numberOfCalls - 200) * 0.40;

else if (numberOfCalls <= 150)</pre>

else if (numberOfCalls <= 200)</pre>

bill = 200 + 50 * 0.60

}
else
{

}

}

}

// Display bill.

Question 9

Grade Calculator

The marks obtained by a student in 3 different subjects are input by the user. Your program should calculate the average of subjects. The student gets a grade as per the following rules:

Average	Grade
90-100	A
80-89	В
70-79	C
60-69	D
0-59	F

Question 10

Meaning of Grade

Write a program that prompts the user to enter grade. Your program should display the corresponding meaning of grade as per the following table

Grade	Meaning
A	Excellent
В	Good
C	Average
D	Deficient
F	Failing