1. import java.util.Scanner;

class EvenOdd {

    public static void main(String[] *args*) {

        Scanner console = new Scanner(System.in);

        System.out.print("Enter a number: ");

        int userNum = console.nextInt();

        String result;

        result = userNum % 2 == 0 ? "Even" : "Odd";

        System.out.printf("The number you entered is %s", result);

    }

}

2. import java.util.Scanner;

public class AbsoluteNum {

    public static void main(String[] *args*) {

        Scanner console = new Scanner(System.in);

        System.out.print("Enter a number: ");

        int userNum = console.nextInt();

        System.out.printf("The absolute value of %d is " + Math.abs(userNum), userNum);

    }

}

3. import java.util.Scanner;

public class DiscountAndRevenue {

    public static void main(String[] *args*) {

*// Rev = price \* quantity*

        Scanner console = new Scanner(System.in);

        System.out.print("Enter a Product price: ");

*// assign variable -*

        double price = console.nextDouble();

        System.out.print("Enter a quantity: ");

        int quantity = console.nextInt();

        double revenue = price \* quantity;

        if (revenue > 5000) {

            double discount = revenue \* 0.10;

            revenue -= discount;

            System.out.printf("10 percent discount applied of -$%.2f. Total is $%.2f", discount, revenue);

        } else {

            System.out.print(revenue);

        }

    }

}

4. import java.util.Scanner;

public class LargestNumber {

    public static void main(String[] *args*) {

        Scanner console = new Scanner(System.in);

        System.out.print("Enter the 1st number: ");

        int first = console.nextInt();

        System.out.print("Enter the 2nd number: ");

        int second = console.nextInt();

        System.out.print("Enter the 3rd number: ");

        int third = console.nextInt();

*// set largest to first entry and compare to the rest*

        int largest = first;

        if (second > largest)

            largest = second;

        if (third > largest)

            largest = third;

        System.out.printf("The largest number is %d", largest);

    }

}

5. import java.util.Scanner;

public class PosNegZero {

    public static void main(String[] *args*) {

        Scanner console = new Scanner(System.in);

        System.out.print("Enter a number: ");

        int userNum = console.nextInt();

        String res;

        if (userNum > 0)

            res = "positive";

        else if (userNum < 0)

            res = "negative";

        else

            res = "zero";

        System.out.printf("%d is %s", userNum, res);

    }

}

6. import java.util.Scanner;

public class ValidTriangle {

    public static void main(String[] *args*) {

        Scanner console = new Scanner(System.in);

        System.out.print("Enter the 1st angle: ");

        int first = console.nextInt();

        System.out.print("Enter the 2nd angle: ");

        int second = console.nextInt();

        System.out.print("Enter the 3rd angle: ");

        int third = console.nextInt();

        int sum = first + second + third;

        if (sum == 180)

            System.out.print("Triangle is valid");

        else

            System.out.print("Triangle is not valid");

    }

}

7. import java.util.Scanner;

public class LeapYear {

    public static void main(String[] *args*) {

        Scanner console = new Scanner(System.in);

        System.out.print("Enter a year: ");

        int year = console.nextInt();

        if (year % 100 == 0) {

            if (year % 400 == 0)

                System.out.printf("%d is a Leap year", year);

            else

                System.out.printf("%d is not a Leap year", year);

        } else if (year % 4 == 0)

            System.out.printf("%d is a Leap year", year);

        else

            System.out.printf("%d is not a Leap year", year);

    }

}

8. import java.util.Scanner;

public class TelephoneBill {

    public static void main(String[] *args*) {

        Scanner console = new Scanner(System.in);

        System.out.print("How many calls did you make this month? ");

        int calls = console.nextInt();

        double total;

        if (calls > 100) {

            total = 200;

            for (int i = 101; i < calls + 1; i++) {

                if (i <= 150)

                    total += 0.6;

                else if (i > 150 && i <= 200)

                    total += 0.5;

                else

                    total += 0.4;

            }

        } else {

            total = 200;

        }

        System.out.printf("Your monthly telephone bill is $%.2f", total);

    }

}