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package Exercise2;

import java.util.Scanner;

public class Calculation {

    // method used for addition of two numbers

    public void addition()
    {
        Scanner sc = new Scanner(System.in);

        System.out.println("Enter the first number: ");

        double n1 = sc.nextDouble();

        System.out.println("Enter the second number: ");

        double n2 = sc.nextDouble();

        double sum = n1 + n2;

        System.out.println("Addition of "+ n1 + " and "+ n2 + " is "+
sum);
    }

    // method used for subtraction of two numbers

    public void subtraction()
    {
        Scanner sc = new Scanner(System.in);

        System.out.println("Enter the first number: ");

        double n1 = sc.nextDouble();

        System.out.println("Enter the second number: ");

        double n2 = sc.nextDouble();

        double sub = n1 - n2;

        System.out.println("Subtraction of "+ n1 + " and "+ n2 + " is "+
sub);
    }

    // method used for multiplication of two numbers

    public void multiplication()
    {
        Scanner sc = new Scanner(System.in);

        System.out.println("Enter the first number: ");

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        double n1 = sc.nextDouble();

        System.out.println("Enter the second number: ");

        double n2 = sc.nextDouble();

        double mul = n1 * n2;

        System.out.println("Multiplication of "+ n1 + " and "+ n2 + " is
"+ mul);
    }

    // method used for division of two numbers

    public void division()
    {
        Scanner sc = new Scanner(System.in);

        System.out.println("Enter the first number: ");

        double n1 = sc.nextDouble();

        System.out.println("Enter the second number: ");

        double n2 = sc.nextDouble();

        double div = n1 / n2;

        System.out.println("Division of "+ n1 + " and "+ n2 + " is "+
div);
    }

    // method used for modulus of two numbers

    public void modulo()
    {
        Scanner sc = new Scanner(System.in);

        System.out.println("Enter the first number: ");

        int n1 = sc.nextInt();

        System.out.println("Enter the second number: ");

        int n2 = sc.nextInt();

        int mod = n1 % n2;

        System.out.println("Mod of "+ n1 + " and "+ n2 + " is "+ mod);
    }

    // method used for finding square root of a number

    public void sqroot()
    {
        Scanner sc = new Scanner(System.in);

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        System.out.println("Enter the first number: ");

        long n1 = sc.nextLong();

        double sqr = Math.sqrt(n1);

        System.out.println("Square root of "+ n1 + " is "+ sqr);
    }

    public static void main(String[] args) {

        Calculation c = new Calculation(); // created object of the
class to access non-static methods

        int ch;

        do {

            System.out.println("----- Nitin's
Calculator -----");

            System.out.println("-----
-----");

            Scanner sc = new Scanner(System.in);

            System.out.println("\nEnter your choice ..... \n\n1. Addititon
\n2. Subtraction \n3. Multiplication \n4. Division \n5. Modulo \n6. Square
root");

            System.out.println();

            ch = sc.nextInt(); // taking input from the user

            switch(ch) // based on user input performing operations
            {
                case 1:

                    c.addition(); // performs addition
                    break;

                case 2:

                    c.subtraction(); // performs subtraction
                    break;

                case 3:

                    c.multiplication(); // performs multiplication
                    break;

                case 4:

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        c.division(); // performs division
        break;

    case 5:

        c.modulo(); // performs modulus
        break;

    case 6:

        c.sqroot(); // finds square root
        break;

    default:

        System.out.println("Invalid choice. \nPlease
choose a correct option.");
    }

    }while(ch != 0);

}

}
```