import java.util.Scanner;

public class ArithmeticCalculator{

    public static void main(String args[]){

        System.out.println("//Welcome to the Arithmetic Calculator program//\n");

        Scanner sc= new Scanner(System.in);

        while(true){

        System.out.println("Select the operation that you want to perform");

        System.out.println("1. Addition  2. Subtraction  3. Multiplication  4. Division  5. Exit (to exit the program)\n");

        //Getting operation selection from user

        int opr= sc.nextInt();

        //Addition

        if(opr==1){

            System.out.println("Enter the numbers for addition");

            Double a= sc.nextDouble();

            Double b= sc.nextDouble();

            Double c= a+b;

            System.out.println("Result of addition is "+c+"\n");

        }

        //Subtraction

        else if(opr==2){

            System.out.println("Enter the numbers for subtraction");

            Double a= sc.nextDouble();

            Double b= sc.nextDouble();

            Double c= a-b;

            System.out.println("Result of subtraction is "+c+"\n");

        }

        //Multiplication

        else if(opr==3){

            System.out.println("Enter the numbers for multiplication");

            Double a= sc.nextDouble();

            Double b= sc.nextDouble();

            Double c= a\*b;

            System.out.println("Result of multiplication is "+c+"\n");

        }

        //Division

        else if(opr==4){

            System.out.println("Enter the numbers for division");

            Double a= sc.nextDouble();

            Double b= sc.nextDouble();

            Double c= a/b;

            System.out.println("Result of division is "+c+"\n");

        }

        //Exiting program

        else if(opr==5){

            sc.close();

            System.exit(0);

        }

        //Handling invalid options

        else{

            System.out.println("Enter a correct option\n");

            continue;

        }

    }

    }

}