```
package arithmaticCalculator;
import java.util.*;

//Declared a input class to store all the inputs at once
class userInputs
{
	Scanner sc = new Scanner(System.in);

	//used public access specifier
	//taking inputs from user
	public double inB()
	{
		System.out.print("enter Second Numbeer: ");
		double b = sc.nextDouble();
		return b;
	}
	public double inA()
	{
		System.out.print("enter First Number: ");
		double a = sc.nextDouble();
		return a;
	}
}

//Declared addition class to perform Addition
class addition
{
	public void add()
	{
		//calling userInput class for getting inputs from user
		userInputs objUi = new userInputs();
		double a = objUi.inA();
		double b = objUi.inB();
		double ans = a+b;
```

```
                //output to the user
                System.out.println("-----------------");
                System.out.println("Answer: "+ans);
                System.out.println("-----------------");

        }
}

//Declared subtraction class to perform Subtraction
class subtraction
{
        public void subtract()
        {
                //calling userInput method for getting inputs from user
                userInputs objUi = new userInputs();
                double a = objUi.inA();
                double b = objUi.inB();
                double ans = a-b;

                //output to the user
                System.out.println("-----------------");
                System.out.println("Answer: "+ans);
                System.out.println("-----------------");

        }
}

//Declared multiplication class to perform multiply
class multiplication
{
        public void multiply()
        {
                //calling userInput method for getting inputs from user
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```
                userInputs objUi = new userInputs();
                double a = objUi.inA();
                double b = objUi.inB();
                double ans = a*b;

                //output to the user
                System.out.println("-----------------");
                System.out.print("Answer: ");

                //used format to fix length after decimal value
                System.out.format("%.3f\n",ans);
                System.out.println("-----------------");
        }
}

//Declared division class to perform divide
class division
{
        public void divide()
        {
                //calling userInput method for getting inputs from user
                userInputs objUi = new userInputs();
                double a = objUi.inA();
                double b = objUi.inB();
                double ans = a/b;

                //output to the user
                System.out.println("-----------------");
                System.out.print("Answer: ");
                if(a%b == 0)
                {
                        //Explicit type casting the output
                        int value = (int)ans;
                        System.out.println(value);
```

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                }
                else
                {
                        System.out.format("%.3f\n",ans);
                }
                System.out.println("----------------");
        }
}

public class arithmeticCalc {
        public static void main(String[] args)
        {
                //Displaying all the operations to user to perform
                System.out.println(" 1. Addition\n 2. Subtraction\n 3. Multiplication\n 4. Division\n ");
                System.out.print("Please select an Operation: ");

                // creates an object of Scanner class
                @SuppressWarnings("resource")
                Scanner sc = new Scanner(System.in);

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

                //used switch case to navigate to desired Class
                switch(operation)
                {
                case 1:
                        //created object of class addition
                        addition objA = new addition();

                        //calling the class
                        objA.add();
                        break;
                case 2:
```

```
                //created object of class subtraction
                subtraction objS = new subtraction();

                //calling the class
                objS.subtract();
                break;
            case 3:
                multiplication objM = new multiplication();
                objM.multiply();
                break;
            case 4:
                division objD = new division();
                objD.divide();
                break;
            default:
                System.out.println("Wrong input ");
                break;
            }
            System.out.print("\n");
            arithmeticCalc.main(null);
        }

}
```