

Creating an Arithmetic Calculator

DESCRIPTION

As a developer, write a program to create an arithmetic calculator.

Background of the problem statement:

As a developer, write a Java code to create a calculator to perform the four basic arithmetic operations (addition, subtraction, multiplication, and division).

You must use the following:

- Eclipse/IntelliJ: An IDE to code for the application
- Java: A programming language
- Git: To connect and push files from the local system to GitHub
- GitHub: To store the application code and track its versions
- Core Java concepts: Variables, data types, operators, type casting, control statements, class, objects, access specifiers, and core keywords like final, this, and static

Following requirements should be met:

- The versions of the code should be tracked on GitHub repositories.
- The *calculator* should work properly.

```
import java.io.*;
```

```
import java.lang.*;
```

```
import java.lang.Math;
```

```
import java.util.Scanner;
```

```
public class ArithmeticCalculator {
```

```
    public static void main(String[] args)
```

```
    {
```

```
        //storing two numbers
```

```
        double n1, n2;
```

```
        //Get the input from the user
```

```
        Scanner sc = new Scanner(System.in);
```

```
        System.out.println("Enter the numbers");
```

```
        //Take in the numbers
```

```
n1 = sc.nextDouble();  
n2 = sc.nextDouble();
```

```
System.out.println("Enter the operator (+,-,*,/)");
```

```
char op = sc.next().charAt(0);
```

```
double out = 0;
```

```
switch(op) {
```

```
    //adding two numbers
```

```
    case '+':
```

```
        out = n1 + n2;
```

```
        break;
```

```
    //subtracting two numbers
```

```
    case '-':
```

```
        out = n1 - n2;
```

```
        break;
```

```
    //multiplying two numbers
```

```
    case '*':
```

```
        out = n1*n2;
```

```
        break;
```

```
    //dividing two numbers
```

case '/':

out = n1/n2;

break;

default:

System.out.println("You entered wrong inputs.");

break;

}

System.out.println("The final result:");

System.out.println();

//printing the final result

System.out.println(n1 + " " + op + " " + n2 + " = " + out);

}

}