Assignment-2

DEVELOP A CALCULATOR USING SWITCH CASE:

CODE:

```
package Assignment2;

import java.util.Scanner;

public class Celculator {

public static String calculate(int firstValue, int secondValue, int operator) { lusage double result = 0;
    String operation = "";

switch (operator) {
    case 1:
        result = firstValue + secondValue;
        operation = "+";
        break;
    case 2:
    result = firstValue - secondValue;
    operation = "-";
    break;
    case 3:
    result = firstValue * secondValue;
    operation = "-";
    break;
    case 3:
    result = firstValue * secondValue;
    operation = "*";
    break;
    case 4:
    if (secondValue != 0) {
        result = firstValue / secondValue;
        operation = "*";
        break;
    case 4:
    if (secondValue != 0) {
        result = (double) firstValue / secondValue;
        operation = "/";
    } else {
        return "Cannot divide by zero";
}
```

```
break;
default:
return "Invalid operator";

}

return firstValue + " " + operation + " " + secondValue + " = " + result;

return firstValue + " " + operation + " " + secondValue + " = " + result;

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return firstValue + " " + operation + " " + secondValue + " = " + result;

public static String getValues(Scanner scanner) { 1usage

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

int firstValue = scanner.nextInt();

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

int secondValue = scanner.nextInt();

system.out.println("1. Add");
System.out.println("1. Add");
System.out.println("1. Add");
System.out.println("3. Multiply");
System.out.println("4. Divide");

int operator = scanner.nextInt();

return calculate(firstValue, secondValue, operator);

return calculate(firstValue, secondValue, operator);
```

```
public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);

    while (true) {
        System.out.println(getValues(scanner));
        System.out.print("Do you want to try again(y/n): ");
        String choice = scanner.next();
        if (!choice.equalsIgnoreCase( anotherString: "y")) {
            break;
        }
    }

    scanner.close();

}

range

range

public static void main(String[] args) {
        Scanner(System.in);

        while (true) {
            System.out.println(getValues(scanner));
            System.out.print("Do you want to try again(y/n): ");
            String choice = scanner.next();
            if (!choice.equalsIgnoreCase( anotherString: "y")) {
                break;
            }
            }

range

ra
```

Output1:

```
"C:\Program Files\Java\jdk-20\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\\bib\idea_rt.jar=61515:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\bib\Enter the first number: 34
Enter number beside the operation to perform:

1. Add

2. Subtract

3. Multiply

4. Divide

2
65 - 34 = 31.0
Do you want to try again(y/n): n

Process finished with exit code 0
```

Output2:

```
"C:\Program Files\Java\jdk-20\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\lib\idea_rt.jar=61527:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\bi
Enter the first number: 0
Enter number beside the operation to perform:

1. Add

2. Subtract

3. Multiply

4. Divide

4. Cannot divide by zero

Do you want to try again(y/n):
```

Output3:

```
"C:\Program Files\Java\jdk-20\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\lib\idea_rt.jar*61540:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\bi
Enter the first number: 45
Enter the second number: 22
Enter number beside the operation to perform:
1. Add
2. Subtract
3. Multiply
4. Divide
1
45 * 22 = 47.0
Enter the second number: 20
Enter the second number: 30
Enter number beside the operation to perform:
1. Add
2. Subtract
3. Multiply
4. Divide
3
9 * 30 = 680.0
Do you want to try again(y/n): n

Process finished with exit code 0
```