

Q10] Arithmetic Operations with Command Line Input

Write a program that accepts two integers and an arithmetic operator (+, -, *, /) from the command line. Perform the specified arithmetic operation based on the operator provided. (Hint: Use switch-case for operations).

⇒

```
1 package assign2;
2
3 public class Test {
4     public static void main(String[] args) {
5         if (args.length != 3) {
6             System.out.println("Usage: java Main <num1> <num2> <operator>");
7             return;
8         }
9         try {
10            int num1 = Integer.parseInt(args[0]);
11            int num2 = Integer.parseInt(args[1]);
12            String operator = args[2];
13            int result;
14            switch (operator) {
15                case "+":
16                    result = num1 + num2;
17                    break;
18                case "-":
19                    result = num1 - num2;
20                    break;
21                case "*":
22                    result = num1 * num2;
23                    break;
24                case "/":
25                    if (num2 == 0) {
26                        System.out.println("Error: Division by zero");
27                        return;
28                    }
29                    result = num1 / num2;
30                    break;
31                default:
32                    System.out.println("Error: Invalid operator");
33                    return;
34            }
35
36            System.out.println("Result: " + result);
37
38        } catch (NumberFormatException e) {
39            System.out.println("Error: Invalid number format");
40        }
41    }
42 }
43
44 }
```

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<terminated> Test [Java Application] D:\eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_

Result: 17