

# CSC1850 Object-oriented Programming (Fall 2025)

## Homework Assignment 10

(10 points)

**Due Date: Tuesday, Nov. 11 before midnight**

### 1 (5 point)

Calculator.java, is a simple command-line calculator.

Note the program terminates if any operand is nonnumeric.

Write a program with an exception handler that deals with nonnumeric operands; then write another program without using an exception handler to achieve the same objective.

Your program should display a message that informs the user of the wrong operand type before exiting.

```
1 public class Calculator {
2     /** Main method */
3     public static void main(String[] args) {
4         // Check number of strings passed
5         if (args.length != 3) {
6             System.out.println(
7                 "Usage: java Calculator operand1 operator operand2");
8             System.exit(1);
9         }
10
11         // The result of the operation
12         int result = 0;
13
14         // Determine the operator
15         switch (args[1].charAt(0)) {
16             case '+': result = Integer.parseInt(args[0]) +
17                         Integer.parseInt(args[2]);
18                     break;
19             case '-': result = Integer.parseInt(args[0]) -
20                         Integer.parseInt(args[2]);
21                     break;
22             case '.': result = Integer.parseInt(args[0]) *
23                         Integer.parseInt(args[2]);
24                     break;
25             case '/': result = Integer.parseInt(args[0]) /
26                         Integer.parseInt(args[2]);
27         }
28
29         // Display result
30         System.out.println(args[0] + ' ' + args[1] + ' ' + args[2]
31             + " = " + result);
32     }
33 }
```

### 2 (5 points)

Write a program that counts the number of words in President Abraham Lincoln's Gettysburg address from <https://liveexample.pearsoncmg.com/data/Lincoln.txt>.