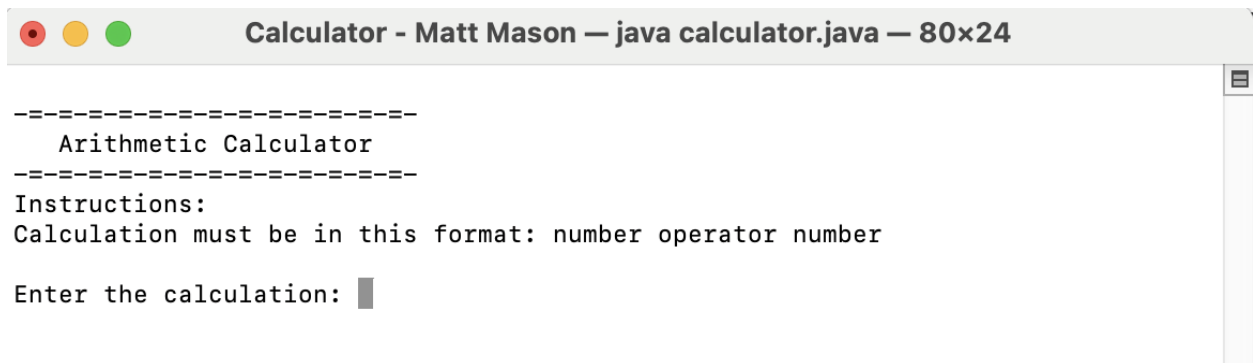


Object Oriented
Programming 1
Prof. Fred Stiebler
ICE 2

Matt Mason

SS1: shows the Calculator App running in the Mac terminal

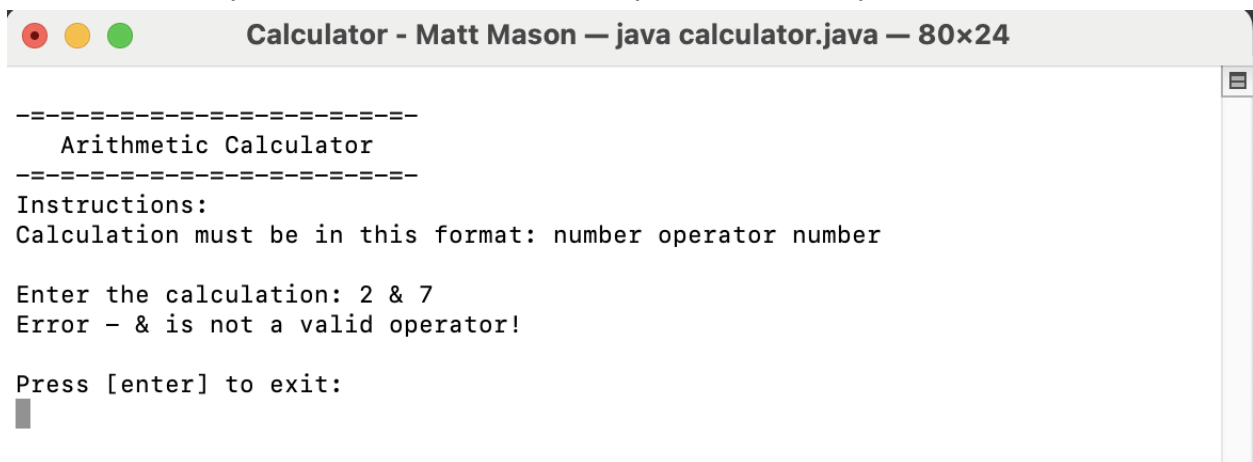


```
Calculator - Matt Mason — java calculator.java — 80x24

-----
  Arithmetic Calculator
-----
Instructions:
Calculation must be in this format: number operator number

Enter the calculation: █
```

SS2: shows an operator error when the user inputs an invalid operator



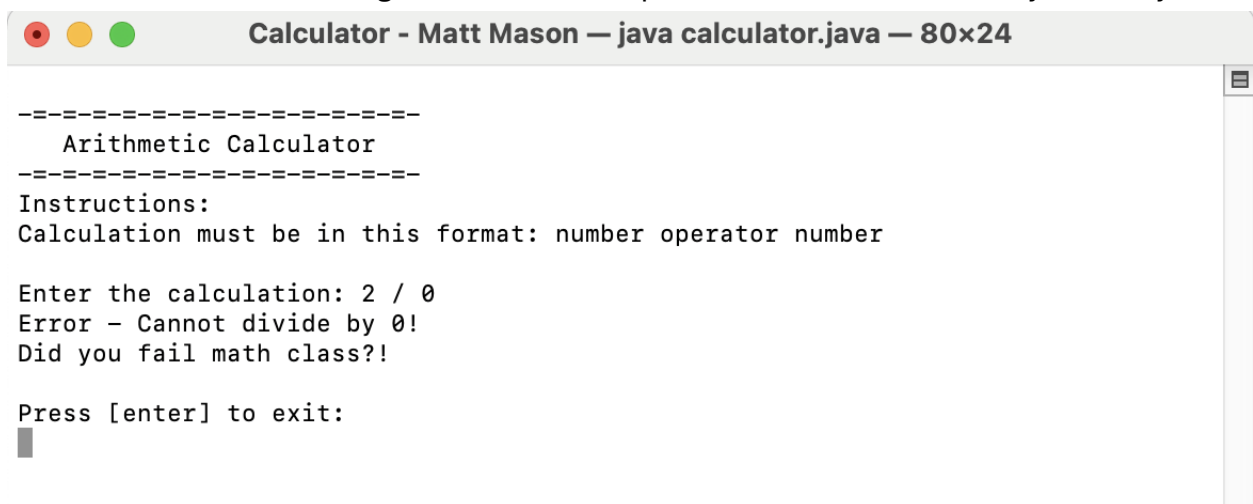
```
Calculator - Matt Mason — java calculator.java — 80x24

-----
  Arithmetic Calculator
-----
Instructions:
Calculation must be in this format: number operator number

Enter the calculation: 2 & 7
Error - & is not a valid operator!

Press [enter] to exit: █
```

SS3: shows an error message when the user inputs a calculation where they divide by 0



```
Calculator - Matt Mason — java calculator.java — 80x24

-----
  Arithmetic Calculator
-----
Instructions:
Calculation must be in this format: number operator number

Enter the calculation: 2 / 0
Error - Cannot divide by 0!
Did you fail math class?!

Press [enter] to exit: █
```

SS4: the results of an addition operation and exit prompt

```
Calculator - Matt Mason — java calculator.java — 80x24

-----
Results
-----
2.0 + 105.0 = 107.0

Press [enter] to exit:
█
```

SS5: the results of a subtraction operation and exit prompt

```
Calculator - Matt Mason — java calculator.java — 80x24

-----
Results
-----
50.0 - 1020.0 = -970.0

Press [enter] to exit:
█
```

SS6: the results of a multiplication operation and exit prompt

```
Calculator - Matt Mason — java calculator.java — 80x24

-----
Results
-----
5.0 * 102.0 = 510.0

Press [enter] to exit:
█
```

SS7: the results of a division operation and exit prompt

```
Calculator - Matt Mason — java calculator.java — 80x24

-----
Results
-----
5.0 / 10.0 = 0.5

Press [enter] to exit:
█
```

Q1: The ++ operator increments the value of a variable by 1

Q2: A switch statement is utilized when you have a variable whose value determines the logical structure of your program. You can mimic a switch statement using if, else if, and else, but using a switch statement will generally be easier. Both technically use logical statements, but a switch statement only deals with cases on a single variable whereas an if statement can incorporate multiple checks.