CECS 424
Assignment 2
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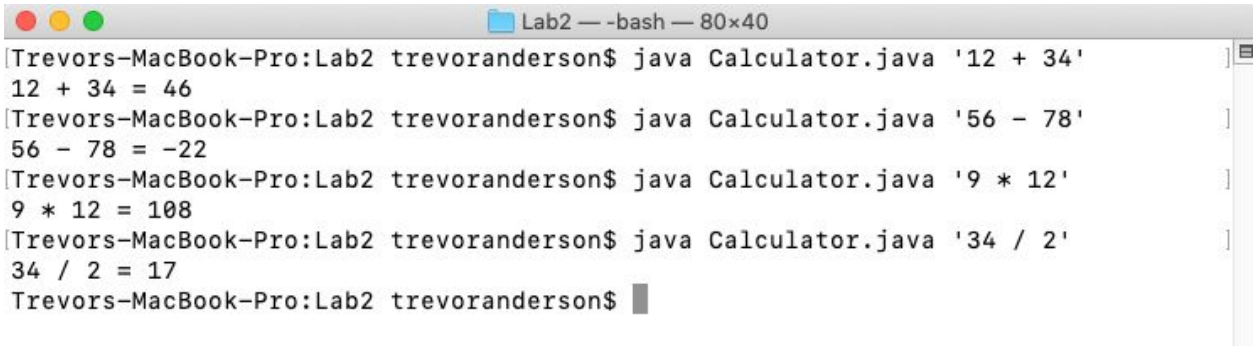
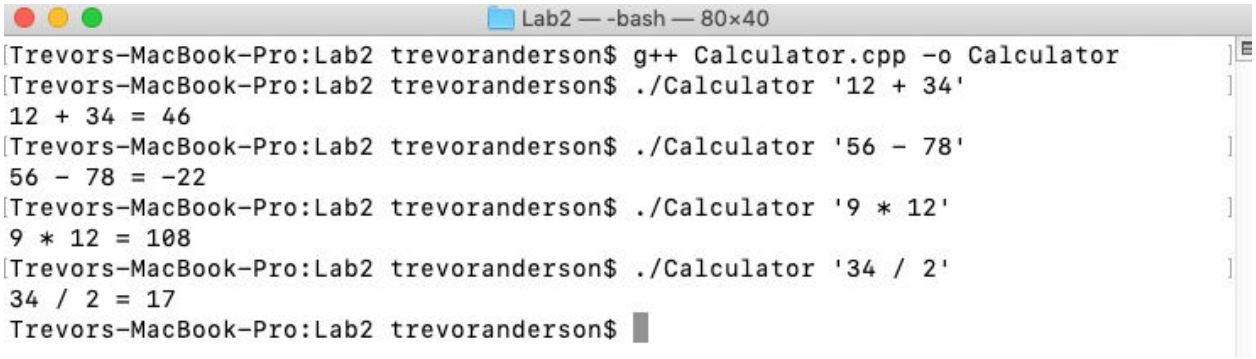
I. Terminal Screen shots

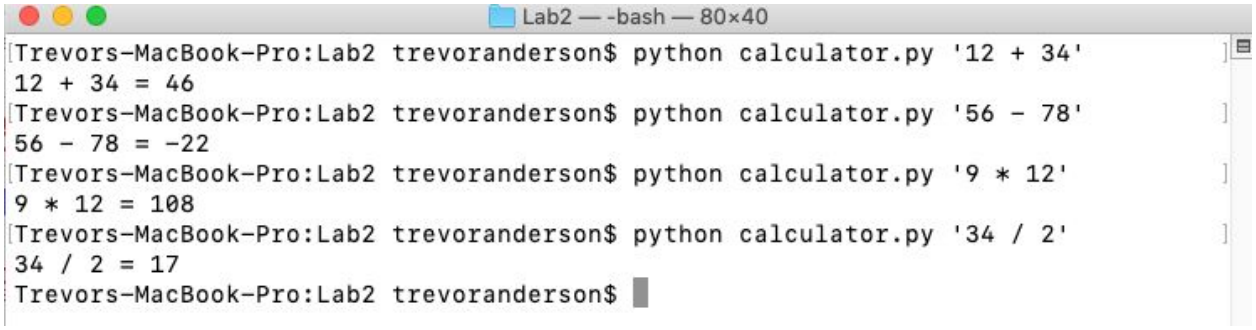
1. Java



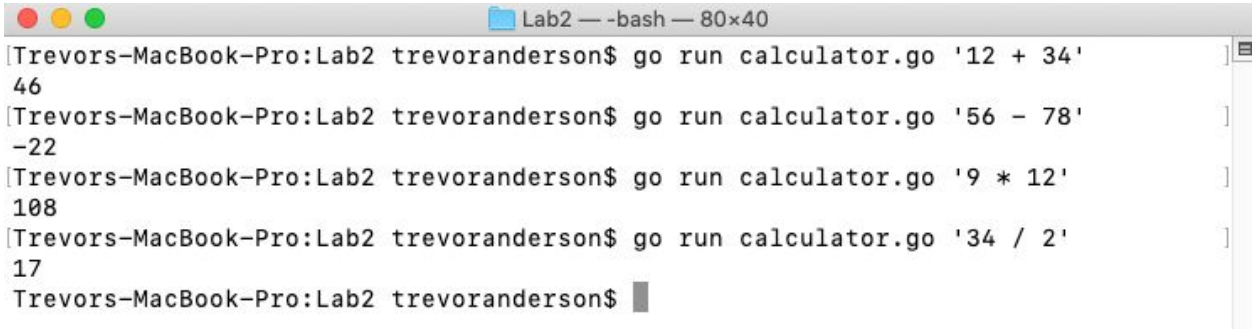
2. C++



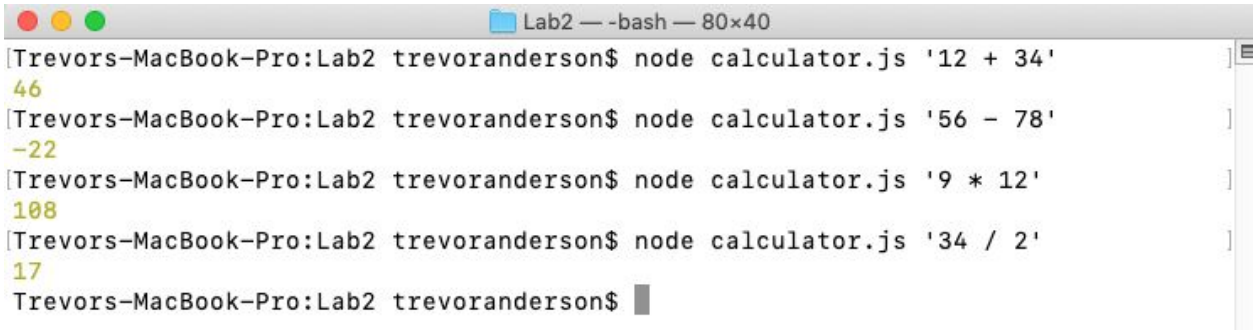
3. Python 3



4. Go



5. JavaScript (Node.js)



II. Source Code

1. Java

```
//Basic user input calculator for Java
public class Calculator {
	public static void main(String[] args) {
		String[] input = args[0].split(" ");
		int in1 = Integer.parseInt(input[0]);
		int in2 = Integer.parseInt(input[2]);
		int out;
```

```
                if (input[1].equals("+")) out = in1 + in2;
                else if(input[1].equals("-")) out = in1 - in2;
                else if(input[1].equals("*")) out = in1 * in2;
                else if(input[1].equals("/")) out = in1 / in2;
                else out = in1 / in2;

                System.out.println(args[0] + " = " + out);
        }
}
```

2. C++

```
//Basic user input calculator for C++ with switch statement
#include <iostream>
using namespace std;

int main(int argc, char *argv[])
{
   char *str[10];
   str[0] = strtok(argv[1], " "); // Splits spaces between words in str
   str[1] = strtok (NULL, " ");
   str[2] = strtok (NULL, " ");
   //convert string to int
   int in1 = atoi(str[0]);
         int in2 = atoi(str[2]);
         const char *op = str[1];


         switch (*op) {
                case '+':
                        std::cout << in1 << " + " << in2 << " = " << in1 + in2 << "\n";
                        break;
                case '-':
          std::cout << in1 << " - " << in2 << " = " << in1 - in2 << "\n";
          break;
           case '*':
          std::cout << in1 << " * " << in2 << " = " << in1 * in2 << "\n";
          break;
       case '/':
```

```
        std::cout << in1 << " / " << in2 << " = " << in1 / in2 << "\n";
        break;
         }
   return 0;
}
```

3. Python 3

```
import sys
#takes the equation from the command line argument and splits it up by space
arg = sys.argv[1]
string = arg.split(' ')
#converts string to integers
in1 = int(string[0])
in2 = int(string[2])
if string[1] == '+':
        print in1 , '+' , in2, '=', in1 + in2
elif string[1] == '-':
        print in1 , '-' , in2, '=', in1 - in2
elif string[1] == '*':
        print in1 , '*' , in2, '=', in1 * in2
elif string[1] == '/':
        print in1 , '/' , in2, '=', in1 / in2
```

4. Go

```
package main
import (
        "fmt"
        "os"
```

```
	"strings"
	"strconv"
)
func main() {
	input := strings.Split(os.Args[1], " ")
	in1, err1 := strconv.ParseInt(input[0], 10, 64)
	in2, err2 := strconv.ParseInt(input[2], 10, 64)
	if err1 == nil && err2 == nil{
		var out int64
		if input[1]== "+" {
			out = in1 + in2
		} else if input[1] == "-" {
			out = in1 - in2
		} else if input[1] == "*" {
			out = in1 * in2
		} else {
			out = in1 / in2
		}

		fmt.Println(out)
	}
}
```

5. JavaScript (Node.js)

```
var array = process.argv[2].split(" ");

var in1 = parseInt(array[0], 10);
var in2 = parseInt(array[2], 10);

if (array[1] == '+')
	console.log(in1 + in2);
else if (array[1] == '-')
	console.log(in1 - in2);
else if (array[1] == '*')
	console.log(in1 * in2);
else if (array[1] == '/')
	console.log(in1 / in2);
```