Logan Hammond

14 January 2020

SDEV 300, Fair

Lab 1 Application Tests

MinMax Results

Test Case	Input	Expected Output	Actual Output	Pass?
1a	1,2,3,4,5	1,5	1,5	Yes
1b	5,4,3,2,1	1,5	1,5	Yes
1c	-1,-2,-3,-4,-5	-5,-1	-5,-1	Yes
1d	-5,-4,-3,-2,-1	-5,-1	5,1	Yes
1e	1,2,3,4,f	Error	Error	Yes

```
Enter first number: 1
                                    Enter first number: -1
Enter second number: 2
                                    Enter second number: -2
Enter third number: 3
                                    Enter third number: -3
                                    Enter fourth number: -4
Enter fourth number: 4
Enter fifth number: 5
                                    Enter fifth number: -5
The minimum integer entered was 1
                                    The minimum integer entered was -5
                                    The maximum integer entered was -1
The maximum integer entered was 5
                                    Process exited with code: 0
Process exited with code: 0
```

```
Enter first number: 1
Enter second number: 2
Enter third number: 3
Enter fourth number: 4
Enter fifth number: f
Traceback (most recent call last):
    File "/home/ec2-user/environment/Lab 1/MinMax.py", line 12, in <module>
        fifth_num = int(input("Enter fifth number: "))
ValueError: invalid literal for int() with base 10: 'f'

Process exited with code: 0
```

Calculator Results

Addition

Test Case	Input	Expected Output	Actual Output	Pass?
1a	1, 2	3	3	Yes
1b	1, -2	-1	-1	Yes
1c	-1, 2	1	1	Yes
1d	-1, -2	-3	-3	Yes
1e	1, f	Error	Error	Yes

```
What calculation do you want to perform?
What calculation do you want to perform?
                                               1) Addition
1) Addition
                                               Subtraction
2) Subtraction
                                               Multiplication
Multiplication
4) Division
5) Modulus
                                               4) Division
                                               5) Modulus
                                               Choice: 1
Choice: 1
Enter first integer: 1
                                               Enter first integer: 1
Enter second integer: 2
The sum of 1 and 2 is 3.
                                               Enter second integer: -2
                                               The sum of 1 and -2 is -1.
Process exited with code: 0
                                                Process exited with code: 0
```

```
What calculation do you want to perform?
                                                       What calculation do you want to perform?
1) Addition
                                                       1) Addition
2) Subtraction
3) Multiplication
4) Division
5) Modulus
2) Subtraction

 Multiplication

4) Division
5) Modulus
Choice: 1
                                                       Choice: 1
Enter first integer: -1
                                                       Enter first integer: -1
Enter second integer: 2
The sum of -1 and 2 is 1.
                                                       Enter second integer: -2
                                                       The sum of -1 and -2 is -3.
 Process exited with code: 0
                                                         rocess exited with code: 0
```

Subtraction

Test Case	Input	Expected Output	Actual Output	Pass?
1a	1, 2	-1	-1	Yes
1b	-1, 2	-3	-3	Yes
1c	1, -2	3	3	Yes
1d	-1, -2	1	1	Yes
1e	1, f	Error	Error	Yes

What calculation do you want to perform? What calculation do you want to perform? 1) Addition 1) Addition 2) Subtraction 2) Subtraction 3) Multiplication 3) Multiplication 4) Division 4) Division 5) Modulus 5) Modulus Choice: 2 Choice: 2 Enter first integer: -1 Enter first integer: 1 Enter second integer: 2 Enter second integer: 2 The difference of -1 and 2 is -3. The difference of 1 and 2 is -1. Process exited with code: 0 Process exited with code: 0

```
What calculation do you want to perform?
1) Addition
2) Subtraction
3) Multiplication
4) Division
5) Modulus
Choice: 2
Enter first integer: 1
Enter second integer: f
Traceback (most recent call last):
 File "/home/ec2-user/environment/Lab 1/Calculator.py", line 20, in <module>
    second_num = int(input("Enter second integer: "))
ValueError: invalid literal for int() with base 10: 'f'
 rocess exited with code: 0
```

Multiplication

Test Case	Input	Expected Output	Actual Output	Pass?
1a	1,2	2	2	Yes
1b	-1,2	-2	-2	Yes
1c	1,-2	-2	-2	Yes
1d	-1,-2	2	2	Yes
1e	1.f	Frror	Frror	Yes

What calculation do you want to perform?

- 1) Addition
- 2) Subtraction
- 3) Multiplication
- 4) Division
- 5) Modulus

Choice: 3

Enter first integer: 1 Enter second integer: 2

The product of 1 and 2 is 2.

Process exited with code: 0

What calculation do you want to perform?

- 1) Addition
- 2) Subtraction
- 3) Multiplication
- 4) Division
- 5) Modulus

Choice: 3

Enter first integer: -1 Enter second integer: 2

The product of -1 and 2 is -2.

Process exited with code: 0

Division

	1		1	
Test Case	Input	Expected Output	Actual Output	Pass?
1a	4,2	2.0	2.0	Yes
1b	-4,2	-2.0	-2.0	Yes
1c	4,-2	-2.0	-2.0	Yes
1d	-4,-2	2.0	2.0	Yes
1e	4,0	Error	Error	Yes
1f	4,f	Error	Error	Yes

```
What calculation do you want to perform?

1) Addition
2) Subtraction
3) Multiplication
4) Division
5) Modulus
Choice: 4
Enter second integer: 2
The quotient of 4 and 2 is 2.0.

Process exited with code: (

What calculation do you want to perform?
1) Addition
2) Subtraction
3) Multiplication
4) Division
5) Modulus
Choice: 4
Enter second integer: 2
The quotient of -4 and 2 is -2.0.

Process exited with code: (

What calculation do you want to perform?
1) Addition
2) Subtraction
3) Multiplication
4) Division
5) Modulus
Choice: 4
Enter second integer: 0
Traceback (most recent call last):
File "/home/ec2-user/environment/Lab 1/Calculator.py", line 35, in <module) result = first_num / second_num

ZeroDivisionFror: division by zero

Process exited with code: (

Process exited with code: (

What calculation do you want to perform?
1) Addition
2) Subtraction
3) Multiplication
4) Division
5) Modulus
Choice: 4
Enter second integer: 4
Enter first integer: 4
Enter second integer: 6
Traceback (most recent call last):
File "/home/ec2-user/environment/Lab 1/Calculator.py", line 28, in <module) second_num = int(input("Enter second integer: "))
ValueError: invalid literal for int() with base 10: 'f'

Process exited with code: (

Pro
```

Modulus

Test Case	Input	Expected Output	Actual Output	Pass?
1a	5,10	5	5	Yes
1b	10,5	0	0	Yes
1c	5,-10	-5	-5	Yes
1d	-5,-10	-5	-5	Yes
1e	5,f	Error	Error	Yes

```
What calculation do you want to perform? What calculation do you want to perform?
1) Addition
                                           1) Addition
2) Subtraction
                                           2) Subtraction
3) Multiplication
                                           3) Multiplication
4) Division
                                           4) Division
                                           5) Modulus
5) Modulus
                                           Choice: 5
Choice: 5
Enter first integer: 5
                                           Enter first integer: 5
Enter second integer: 10
                                           Enter second integer: -10
                                           The modulus of 5 and -10 is -5.
The modulus of 5 and 10 is 5.
                                           Process exited with code: 0
Process exited with code: 0
What calculation do you want to perform?
1) Addition
2) Subtraction
3) Multiplication
4) Division
```

What calculation do you want to perform?

1) Addition

2) Subtraction

3) Multiplication

4) Division

5) Modulus

Choice: 5
Enter first integer: 5
Enter second integer: f
Traceback (most recent call last):
 File "/home/ec2-user/environment/Lab 1/Calculator.py", line 20, in <module>
 second_num = int(input("Enter second integer: "))

ValueError: invalid literal for int() with base 10: 'f'