

# CAIS 117: Intro to Programming with Python

Fall 2023

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## Homework 02: Clunky Calculator

*Homework is DUE before class on the day indicated on the course schedule.*

**This is a pair assignment.** *You should complete it and submit it with a partner.*

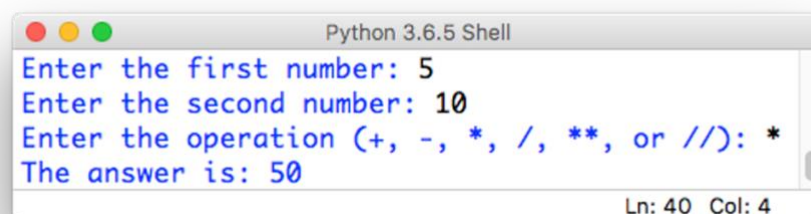
### Learning Objectives:

- Get input from and return output to a user
- Perform basic mathematical operations

### Part 1 – Coding

In this assignment, you will write a short python program that simulates basic calculator functionality.

The user interface of your calculator should ask the user to input two numbers, and then a string indicating which mathematical operation to perform. It should print the answer to the requested calculation. For example:



```
Python 3.6.5 Shell
Enter the first number: 5
Enter the second number: 10
Enter the operation (+, -, *, /, **, or //): *
The answer is: 50
Ln: 40 Col: 4
```

Your calculator should support add, subtract, multiply, divide and power (exponentiation) operations.

Your calculator should be able to handle both integers and floats.

Your submission will be auto graded for correctness and graded by hand for appropriate commenting, structure, etc. (see rubric below). For the auto grader, it's important that your input goes in the prescribed order, and your output is formatted like the example above.

## Reflection

In a word document please answer the following questions:

- a) What part of this assignment was trickiest for you and your partner?
- b) How did you tackle that tricky part?
- c) What did each partner contribute to the final product?

## Submission

Submit your assignment on repl.it. In addition, save your reflection as a PDF and submit it on PLATO.

## Rubric

<b>Function</b>		
	Passes auto grader tests	0 - 10
<b>Commenting</b>		
	Appropriate header with names, date, program description	0 - 2
	Code is well documented, but not over documented	0 - 2
<b>Structure</b>		
	Problem is broken into reasonable chunks	0 - 2
	Variable names are descriptive	0 - 2
	Functions are used appropriately	0 - 2
<b>Reflection</b>		
	All questions answered thoughtfully	0 - 5