

CECS 174 – Assignment 2

Part A - Variables

Write a program that prompts the user to input two integer values, **swap** the values of two variables (i.e. don't just display them in opposite locations), and then display the swapped values back to the user.

Example Output:

```
Please enter two values:
Value #1 = 1
Value #2 = 4

Swapping...

Value #1 = 4
Value #2 = 1
```

Part B - Operators and Type Casting –

Prompt the user to input two decimal values. Calculate and display the results of adding, subtracting, multiplying, and dividing these two numbers. Then round both of the numbers to the nearest integer. (Hint: You can use type casting (not a rounding function) to convert it to an integer, but that won't be enough to actually round it.) Calculate and display the modulus of the two rounded numbers. Calculate and display square of the first number. (Hint: the ^ symbol is not an actual operator.)

Example:

```
Please enter two decimal values:  3.2 3.5
3.2 + 3.5 = 6.7
3.2 - 3.5 = -0.299999998
3.2 * 3.5 = 11.200000001
3.2 / 3.5 = 0.914285714
3 % 4 = 3
3.2 ^ 2 = 10.240000002
```

Notes:

- Italics designate that the value is the user's input.
- Your results for Part B may differ slightly than what is displayed. Later we will learn how to format decimals.
- At the top of both of your programs should be a set of comments containing your name, the assignment number, the date, and a brief description of what your program does.
- At the bottom of both of your programs, copy and paste the output into a set of comments.