

CS 201 Homework #4

Deadline: October 19th, 9:00 pm or earlier.

Remind: Save your code as yourlastname_homework4.py and submit on Edmodo.

Questions/Tasks:

- For this homework, please, avoid using the IF statements even if you know how to do that.
- Use f-strings approach when printing your output

1) Ask the use of your code (the person who runs your program) to enter two numbers between 0 and 10 (let's call them A and B).

2) Calculate and display $A * B$, $A // B$, $A \% B$, $A ** B$

Hint: don't forget that the input values are strings!

Requirement: The output should look like this, for example:

"The product of your numbers is 24"

3) Next compare A and B, and display the results.

There should be four comparisons: $==$, $!=$, $>$, and $<$.

Requirement: The output should look like this, for example:

"8 > 3 is True"

4) Calculate and display if it's true that both A and B are greater than 5.

Requirement: The output should look like this, for example:

"8 > 5 and 3 > 5 is False"

5) Similar to the question above, calculate and display if it's true that at least one of the numbers is greater than 5.

6) Using $!=$ and logical AND examine if both of your numbers are not equal to 5

Requirement: The output should look like this, for example:

"8 is not equal to 5 and 3 is not equal to 5 is True"

or, one of the numbers is actually 5:

"5 is not equal to 5 and 3 is not equal to 5 is False"

7) Create a second version of your program which determines if a valid number was entered. If the user did not enter a correct number it should display a message "Incorrect input".

Requirement: Use try-except-else-finally statements

Regardless of the input, display "Thank you" using finally statement.

8) Implement while loop and ask for use input until a correct input is entered. Consult class notes to see an example how this can be done.

9) (Bonus question) In addition to the above, verify that the entered numbers are indeed between 0 and 10, and ask the user to enter a correct number until the input is correct (for this question you can use IF statement).