CS1400 Multiply Assignment: Multiplication table tester

You should pass this assignment off to a lab assistant before the end of the day on the due date.

In addition, your Python program must be submitted electronically before 11:55 pm on the due date. Use the assignment submission system discussed in class to submit your homework.

If necessary, your instructor will give you more detailed instructions for passing off and submitting your work.

Objectives

- Create a program in a development environment
- Use conditional control structures
- Use looping control structures
- Use variables to track information

Assignment

This assignment is the generate times tables for the user to try. It first asks the user for their name. It then asks the user what times tables they wish to try. Then the program welcomes the user. The program should then go through the times tables for whatever base the user wishes starting at 1 and going up to and including 12. The program should count how many questions the user gets right.

Sample Execution

```
What is your name ->Beep Beep, the robot
What base number for you times tables ->2
Welcome Beep Beep, the robot to the multiplier

--------------------------------------------------
What is 2 times 1  -> 2
Correct
--------------------------------------------------
What is 2 times 2  -> 3
Wrong. The correct answer is 4
--------------------------------------------------
What is 2 times 3  -> 6
Correct
--------------------------------------------------
What is 2 times 4  -> 8
Correct
--------------------------------------------------
What is 2 times 5  -> 10
Correct
--------------------------------------------------
What is 2 times 6  -> 13
Wrong. The correct answer is 12
--------------------------------------------------
What is 2 times 7  -> 14
Correct
--------------------------------------------------
What is 2 times 8  -> 16
Correct
--------------------------------------------------
What is 2 times 9  -> 18
Correct
--------------------------------------------------
What is 2 times 10  -> 200
Wrong. The correct answer is 20
--------------------------------------------------
What is 2 times 11  -> 22
Correct
--------------------------------------------------
What is 2 times 12  -> 24
Correct

You got 9 correct.
```

Pseudo-Code

Pseudo-Code is fake code. It does not follow the syntax (wording) of Python, or any language for that matter. Its purpose is the get the flow of the program (algorithm) down on paper without worrying about the syntax of any language. If you type in the pseudo-code do not expect it to run. You must convert the pseudo-code into real Python code.

```
Ask the user their name and store in name
Ask the user what base they wish for the multiplication table and store in base
greet the user by name
store a zero into the variable correct
loop through the numbers from 1 to 12 using the variable num
|   store num * base to answer
|   Ask the user What is num * base and store it in guess
|   if guess is the same as answer
|   |    display "Correct"
|   |    increment correct (add one to it)
|   else
|   |    display "Wrong"
|   |    display the correct answer
|   end if
end loop
display how many correct
```