CIS 41A - Lab 1: numbers, strings, arithmetic operators, IO

In a Python file called **lab1.py**, write a program with 3 parts.  
Make sure to put your name and lab number at the top of the file.

Part 1. Based on Problem P2.14 from the book.

(You don't need to refer to the book since I've copied the entire problem here and added more material to it, but I believe in citing sources when I used them.)

* Create 2 constants: MIN, which is set to 1000, and MAX, which is set to 999999
* Prompt the user to enter a number between MIN and MAX, inclusive. Make sure you use the constants and don’t hard code the 2 numbers.
* Read in the user integer. You can assume that the user will always give you a number within the requested range, so no error checking needed.
* Print the number with a comma as the thousands separator by using the format: ,d
* Then print the number again with a comma but not by using the formatting above, and instead use the concepts we’ve covered in module 1.
* Then print the percentage of how far along the number line between MIN and MAX is the user input number.
* See the sample output for the 3 prints.

Your program should not have to use any if statement or loop.  
Make sure you use the 2 constants in your code. When I test your program, I could change the MIN and MAX values, and your print output should reflect it.

Here are 3 sample output from 3 different runs:

Enter a number between 1000 and 999999: 12345

Print with comma formatting: 12,345

12,345 is at 1.14 percent between 1000 and 999999

Enter a number between 1000 and 999999: 999999

Print with comma formatting: 999,999

999,999 is at 100.00 percent between 1000 and 999999

Enter a number between 1000 and 999999: 654321

Print with comma formatting: 654,321

654,321 is at 65.40 percent between 1000 and 999999

Part 2. After printing the output of part 1, write one line of code to print a blank line, a line of 25 asterisks (\*), and another blank line.  
Hint: what’s the shortest way to print 25 asterisks?

Part 3. Tell me a little about yourself. Write code to create:

* A variable to store a string which contains: your first and last name, a comma, your major
* A variable to store a string which says how many programming classes you've taken
* A variable to store a string which says what you'd like to get out of this Python class

Then print the 3 strings one after another.  
And then print how many characters you've just printed from the 3 text strings.

You don't need an example of printing out strings, but in fairness, since I asked you about yourself, here's my output:

Clare Nguyen, EECS

I've taken about 10 programming classes (I can't count higher than 10 fingers)

I look forward to the joy of Python!

146 characters

Don't forget to put your name and the lab number at the top of the program.

When done with testing and documentation, upload your lab1.py to Canvas. (Please keep the name lab1.py)