Python Exercises

Print and Variable:

1. Open Notepad and write the code:
   print "hello world"

   And save it as "hello_world.py", then run the python code using CMD (in the same folder as you saved the file) by writing:
   python hello_world.py

   Is the code working? If not, read and understand the error message by python and fix the code such that it prints the right answer to console (CMD).

   Using any IDE for the remaining tasks. Each exercise number should be a new .py file:

2. Go to:
   https://onlineasciitools.com/convert-text-to-ascii-art
   and write your first name. Use font selection "Banner3" (you can select other, but the rest of the exercise becomes easier if none of the symbols /, \, ' or " are used).
   Make a python program that prints you name in this format.

3.
   a. Make a program that use appropriate variables for individual user information (at the placeholder X), and prints the following text about the individual:
      My name is
      X
      with last name
      X.
      I am participating in the course
      X
      There are

        X

        candidates taking the course.

   b. Change some of the variables and re-run the code.
       Imagine if this text was 200pages long, how many possible positions we must look through and change if we didn't use variables! Variables with descriptive names can be frustrating to make, but is very much worth it because of the redundancy and debuggability!

   c. Change the print-function "end" parameter, such that the user variables are printed in text, and not on separate lines.

4. At the top of your file write

```
import time
```

and use "time.sleep(1)" between each print line (it makes python wait 1 second between each print line).

Make a load bar that start with the empty line

`|        |`

for each second prints and extra load bar "=", hence after 3second should look like this

`|===>    |`

and ends with a full bar

`|========|`

For all lines, use the print-function end-parameter

end = "" (no new line)

and

add "/r" in the beginning of each new print (revert the marker back to the beginning of the line).

This overwrite the text from the previous line (except the final line where you can use default end).

Finish by printing "Done!"

5. Create a variable with the string:

```
my_string = 'This iS a HEllO worLd test'
```

use "dir" to see what can be done with a string.

use "help" and learn how to use some of them.

particularly check out how to use "count" and "upper"/"lower" and count

the number of L's in the string (use the upper or lower such that you don't have to search for both L's and l's).