**Making a Python Script Work on the Web**

To make a Python script work on the web (properly integrated with the web server) and create a proper output that will be return back to the browser, perform the following…

1. **Create a Python script**
   1. Create a Python script that prints "hello world" or something similar.
   2. Optionally add HTML tags, *example*…  
      instead of print("hello World"), make that print("**<h1>** hello World **</h1>**").
   3. Test to make sure that the script runs properly with no syntax errors.
   4. Save this Python script with a **.py** extension.
2. **Add a** "**Shebang**" **line, and a response header**
   1. Add the following line as you first line of the Python script  
      **#!/usr/bin/python**  
      Make sure it is the first line, make sure you start typing on the first character of the line, also make sure there are no additional characters at the end of the line, not even spaces.
   2. Before you print any output such the print("hello World"), add the following line…  
      **print("Content-Type: text/html \n")**  
      Make sure the above line is included prior to any other print statement in your script.

Your complete Python script should look like this:

#!/usr/bin/python

print("Content-Type: text/html \n")

print("<h1> hello World </h1>")

1. **Upload your Python script to the NYU web server**
   1. Use your SFTP tool to upload the python script to your "**web**" directory, or sub-directory.  
      *Make sure you specify* ***port*** *number* ***22*** *(not the default port 21).  
      This step is similar to how you have been uploading your other html pages.*
   2. When uploading the script, make sure you are using **ASCII** or **Text** mode, not ~~Binary~~ mode.
2. **Add** "**execute**" **permission to the Python script**
   1. After uploading the script, right click on the name of the script, and choose "**Properties**".  
      *(or find how to change file permissions using the FTP tool you are using)*
   2. Add "**execute**" permission to "**owner**" (aka "user"), "**group**" and "**other**" (aka "public").
   3. Make sure you only have "**write**" permission to "**owner**" (aka "user").
3. **Access you Python script through the browser**
   1. Access the Python through the browser
   2. You should see the output of the script as an html page. (*If not, revisit the steps above)*
   3. If still not successful, use the **PythonWeb\*Tester** on the class home page for more help.