

Python Coding



<https://pellcorp.github.io/coding/docs/python-coding.pdf>

Python

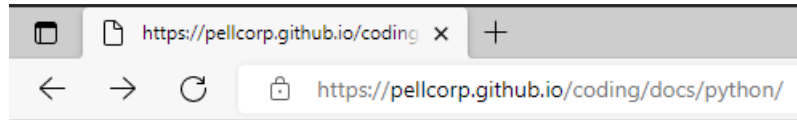


- We are going to learn by doing, including playing with and changing some sample code.

Save hello.py to H:\Documents



- Open Chrome or Edge
- Type **coding.pellcorp.com** into the location bar and hit the **Enter** key.
- Click on the **hello.py** link

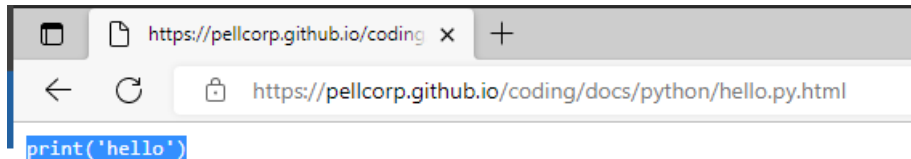


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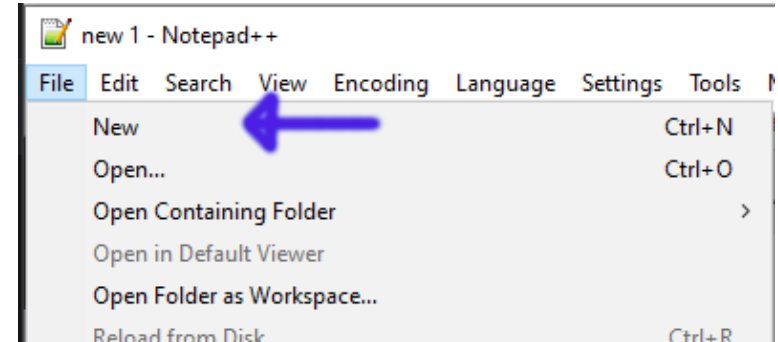


- Select all the code by using **CTRL** key and **A** key



- Copy the selected code by using **CTRL** key and **C** key

- Back to Notepad++
- Use **File** → **New** to open a new tab

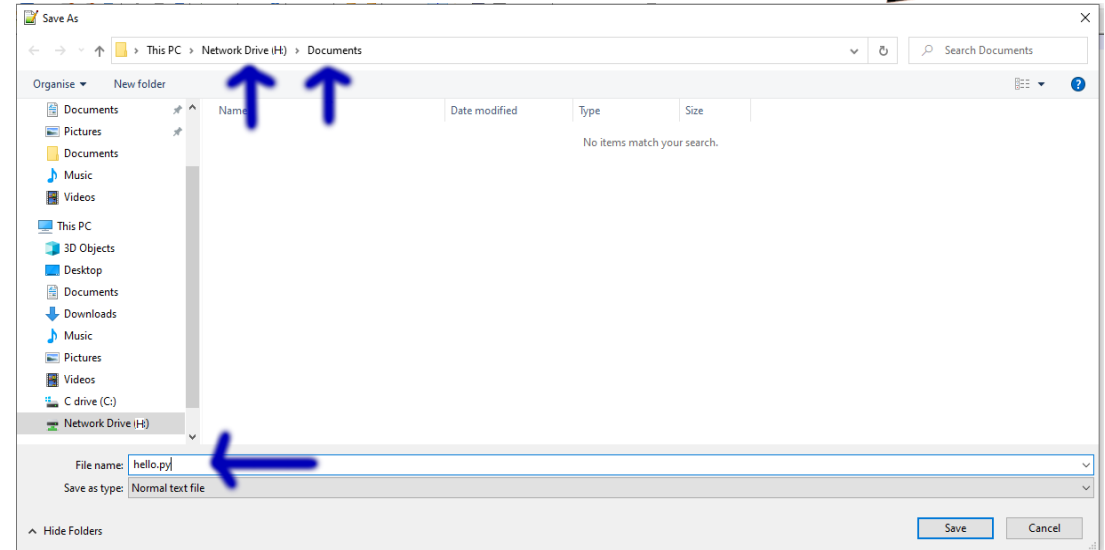


- Paste the code into the new Notepad++ tab using **CTRL** key and **V** key

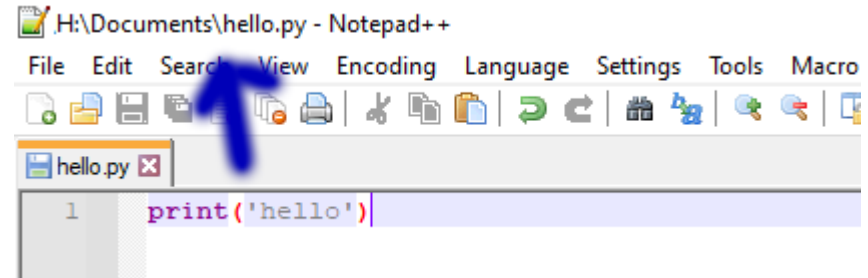
Save hello.py to H:\Documents Cont.



- Click File → Save As



- Save to **H:\Documents** folder with **hello.py** as the File name
- You should now see **H:\Documents\hello.py** at the top of Notepad++



Windows Terminal Tips



- In windows Terminal you can use the arrow keys



- The up and down arrows can be used to use previous commands
- The left and right arrows can be used to edit a command in place.
- The TAB key can be used for command completion.
- For instance, I want to change to the Documents folder, I can type **cd Do** and then the TAB key and Windows Terminal will complete the command for me.

Windows Terminal



- Remember Windows Terminal?
- **Windows** Key + **R** Key
- Then **cmd** and **Enter** key
- Change the drive letter to H: by typing **H:** and **Enter** key.
- Change to H:\Documents by typing **cd Documents** and **Enter** key

```
Command Prompt
Microsoft Windows [Version 10.0.19045.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\user>H:

H:\>cd Documents

H:\Documents>_
```

Run hello.py



"C:\Program Files\Python37\python.exe" hello.py

 Command Prompt

```
Microsoft Windows [Version 10.0.19045.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\user>z:

H:\>cd Documents

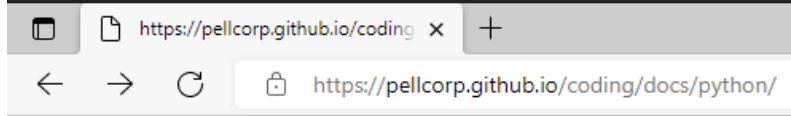
H:\Documents>"C:\Program Files\Python37\python.exe" hello.py
hello

H:\Documents>_
```

Intro Python Samples

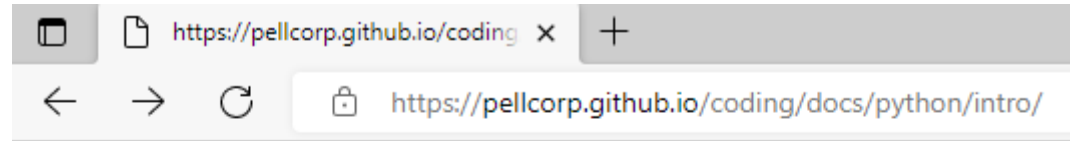


- Open Chrome or Edge
- Type **coding.pellcorp.com** into the location bar and hit the **Enter** key.
- Click on the **intro** link
- The samples should be displayed in your browser like this:



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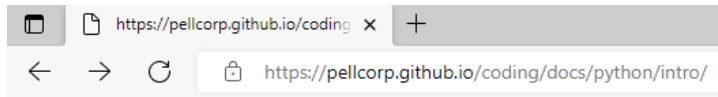
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Save 1-variables.py to H:\Documents



- Open Chrome or Edge
- Type **coding.pellcorp.com** into the location bar and hit the **Enter** key.
- Click on the **1-variables.py** link

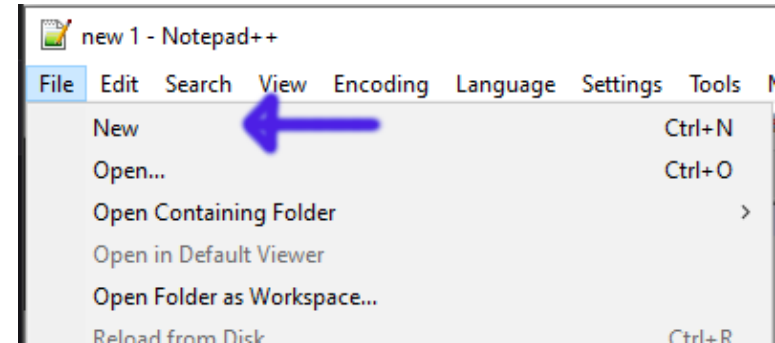


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- [7-list-loop.py](#)

```
im a boolean = True
im a string = 'Hello World'
im a int number = 3
im a float = 3.3
im a list = ['jason', 'thomas', 'zachary', 'ella', 'clair', 'lucy']
print(f'im a boolean: {im a boolean}')
print(f'im a string: {im a string}')
print(f'im a int number: {im a int number}')
print(f'im a float: {im a float}')
print(f'im a list: {im a list}')
```

- Back to Notepad++
- Use **File** → **New** to open a new tab



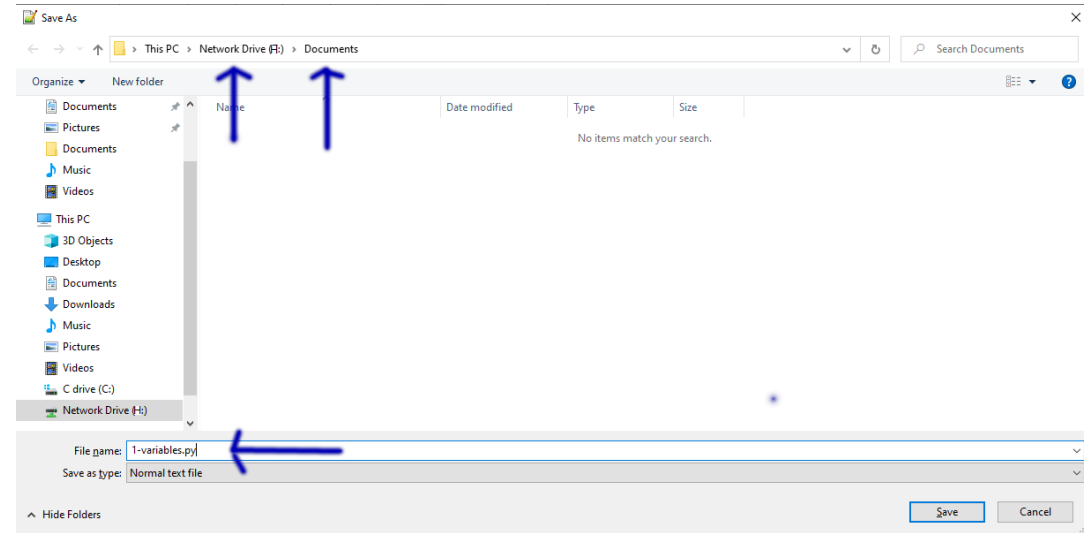
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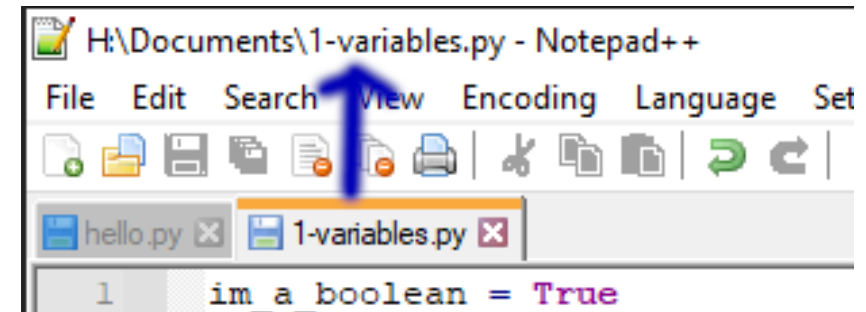
Save 1-variables.py to H:\Documents Cont.



- Click File → Save As



- Save to **H:\Documents** folder with **hello.py** as the File name
- You should now see **H:\Documents\1-variables.py** at the top of Notepad++



Run 1-variables.py



"C:\Program Files\Python37\python.exe" 1-variables.py

```
Command Prompt
Microsoft Windows [Version 10.0.19045.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\user>H:

H:\>cd Documents

H:\Documents>"C:\Program Files\Python37\python.exe" hello.py
hello

H:\Documents>"C:\Program Files\Python37\python.exe" 1-variables.py
im a boolean: True
im a string: Hello World
im a int number: 3
im a float: 3.3
im a list: ['jason', 'thomas', 'zachary', 'ella', 'clair', 'lucy']

H:\Documents>_
```

Save all the samples



- Repeat the steps for:
 - 2-boolean-condition.py
 - 3-string-condition.py
 - 4-int-condition.py
 - 5-float-condition.py
 - 6-list-condition.py

Exercises



- Run and modify **hello.py**
 - Change the text that is printed from 'hello' to whatever you want, just be sure to keep the single quotes!
 - See what happens if you remove the quotes
- Run and modify **1-variables.py**
 - See how each of the different types of variables is printed, change some of the text and rerun the command (remember the up arrow on your keyboard!)
- Run and modify these:
 - 2-boolean-condition.py
 - 3-string-condition.py
 - 4-int-condition.py
 - 5-float-condition.py
 - 6-list-condition.py
- Change the code so that it prints different message(s) in elif and else statements.
- There are some bugs in the code, see if you can find them.