Python Coding

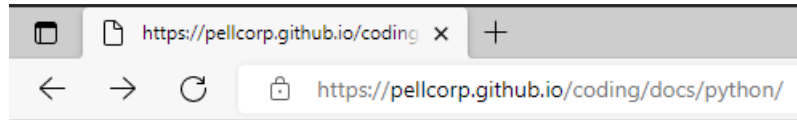https://pellcorp.github.io/coding/docs/python-coding.pdf

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.
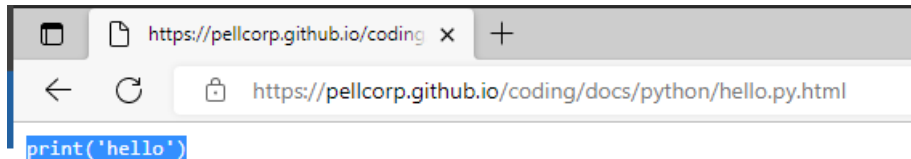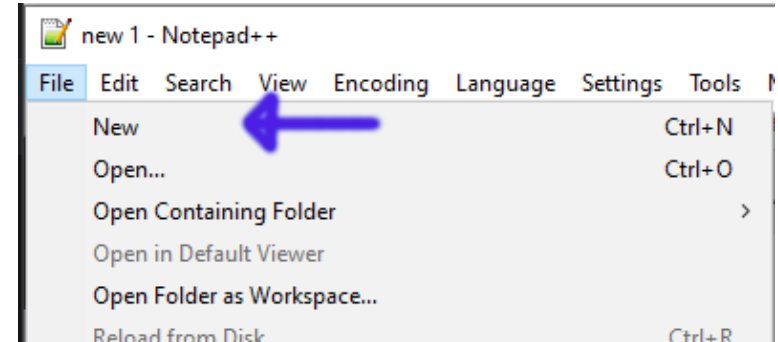
- Click on the **hello.py** link

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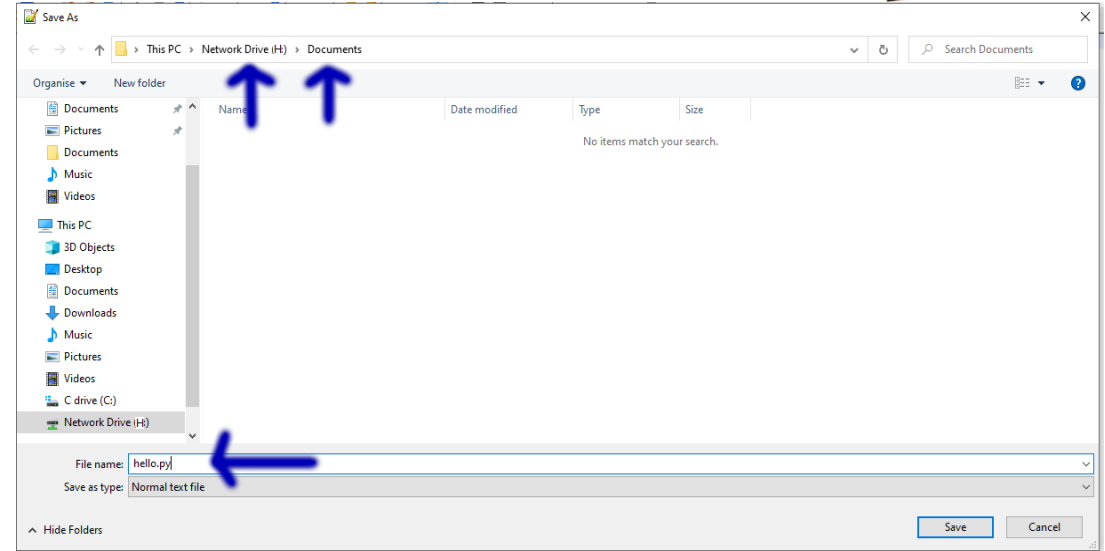
- Use **File** → **New** to open a new tab

- Paste the code into the new Notepad++ tab using **CTRL** key and **V** key
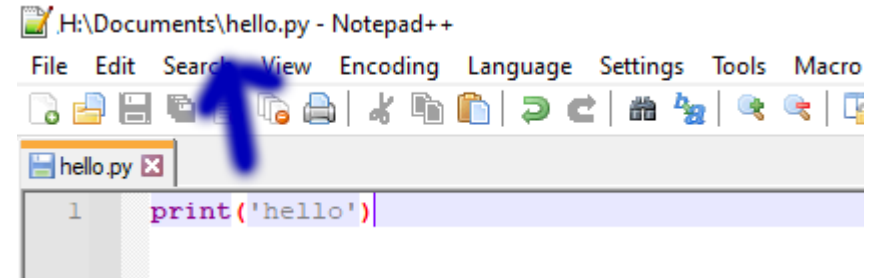
Save hello.py to H:\Documents Cont.

- Click File → Save As

Reload from Disk	Ctrl+R
Save	Ctrl+S
Save As...	Ctrl+Alt+S

- 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 CMD will complete the command for me

- CTRL key + V key can be used in Terminal to paste text you have previously copied

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>_
```
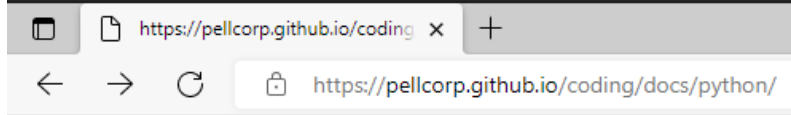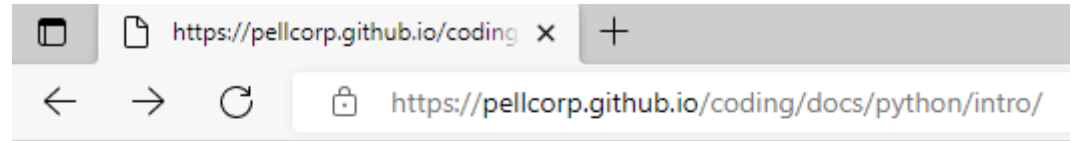
Intro Python Samples

- 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:

Save 1-variables.py to H:\Documents

- Open Chrome or Edge

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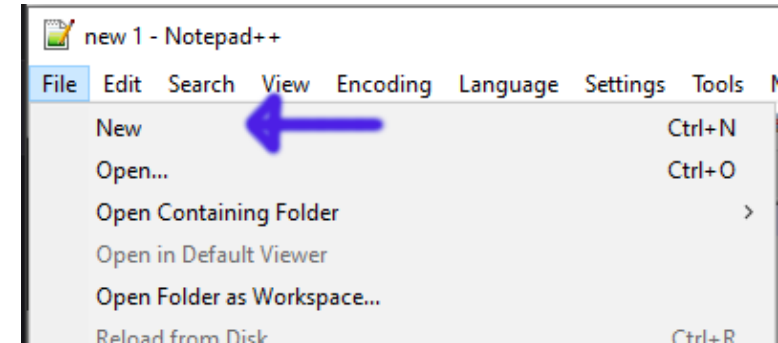
- Click on the **1-variables.py** link

- 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++

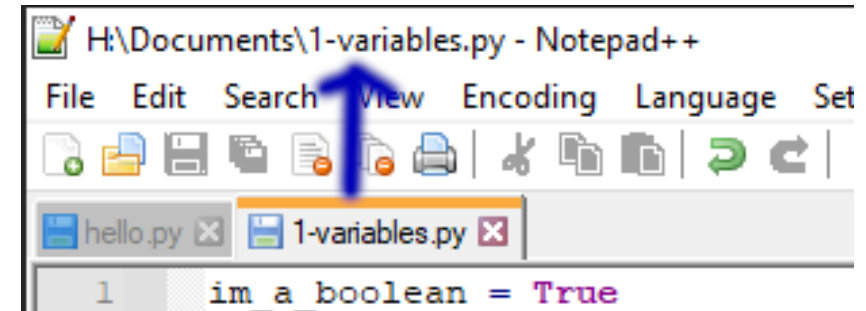- Use **File → New** to open a new tab

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

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

- Click File → Save As

Reload from Disk	Ctrl+R
Save	Ctrl+S
Save As...	Ctrl+Alt+S
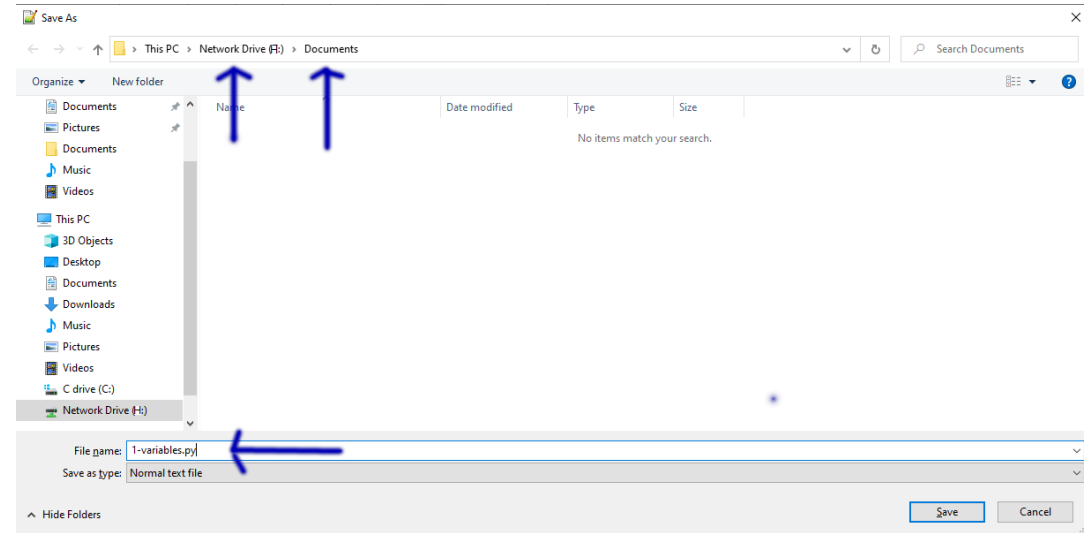
- Save to **H:\Documents** folder with **hello.py** as the File name

- 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`

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.