CAP776

PROGRAMMING IN PYTHON

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installation and setting up path

Installation on Windows

- Visit the link *https://www.python.org/downloads/* to download the latest release of Python.

To check python has installed properly or not

- ✓ Using Python IDLE
- ✓ Using Command Line
- ✓ Using Anaconda/Jupyter Notebook

IDLE Python

IDLE (Integrated Development and Learning Environment) is an integrated development environment (IDE) for Python. The Python installer for Windows contains the IDLE module by default.

Interpreter Mode:

>>>print("hello world")

Output: hello world

Python Script/Python File:

From menu bar : File>New> type:

print("hello world")

Click on Save as : filename.py

Execute :Run option from menu bar

Using Command Line:

Interpreter Mode:

C:\Users\hp>python <Enter>

>>>print("hello world")

Output: hello world

To come out from interpreter mode: >>>**quit()**

Python Script/Python File:
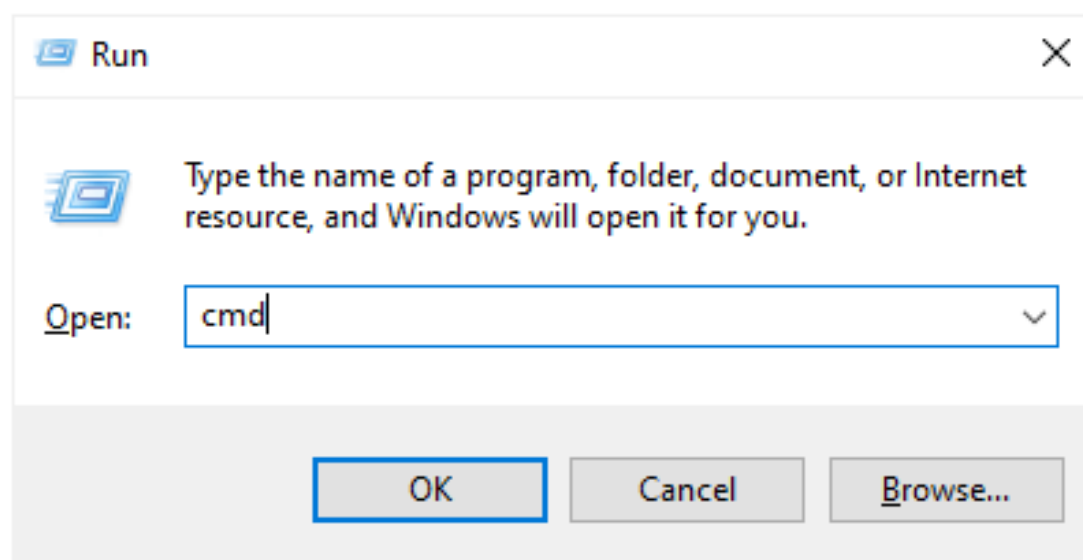
C:\Users\hp>notepad helloworld.py <Enter>

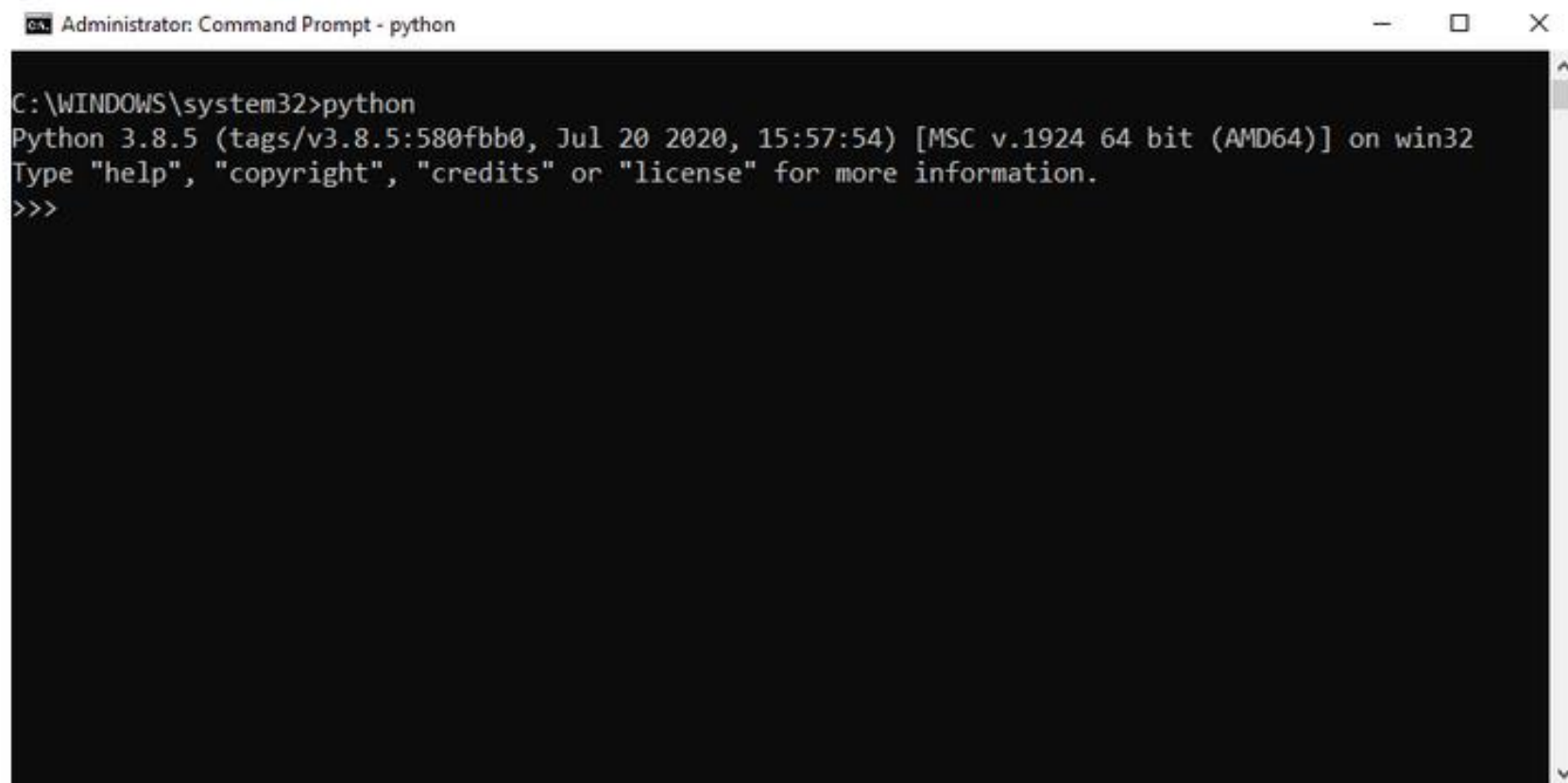Type: print("hello world")

Click on Save from menu bar

Execute :**C:\Users\hp>python helloworld.py <Enter>**

Verify the installation

To verify the installation, you open the Run window and type cmd and press Enter:

Run		X
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.	
Open:	cmd	∨

OK   Cancel   Browse...

In the Command Prompt, type `python` command as follows:

```
C:\WINDOWS\system32>python
Python 3.8.5 (tags/v3.8.5:580fbb0, Jul 20 2020, 15:57:54) [MSC v.1924 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

If you see the following output from the Command Prompt after typing the python command:

```
'python' is not recognized as an internal or external command,
operable program or batch file.
```

setting up path
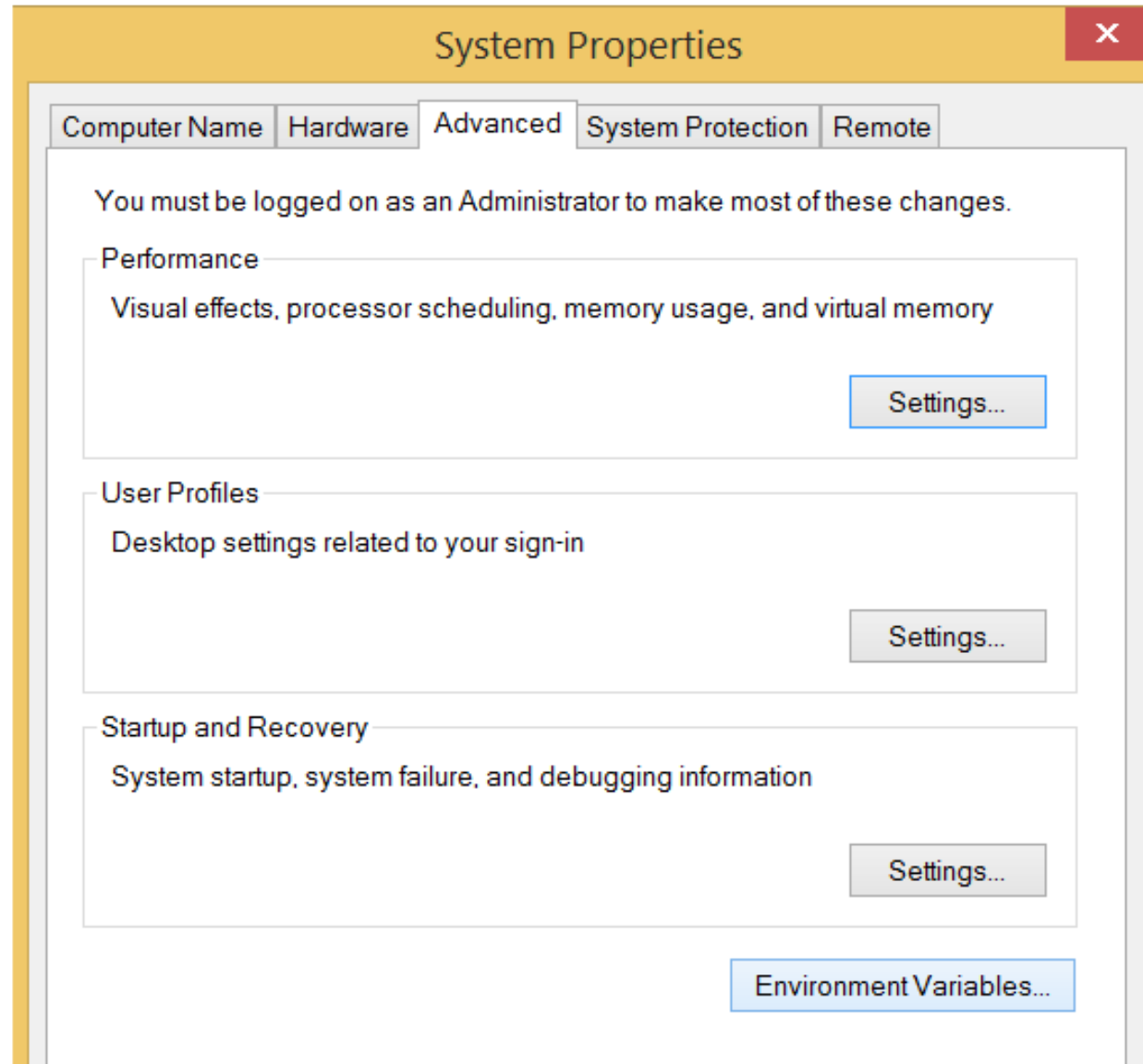
Steps:

➢Check your python installed path
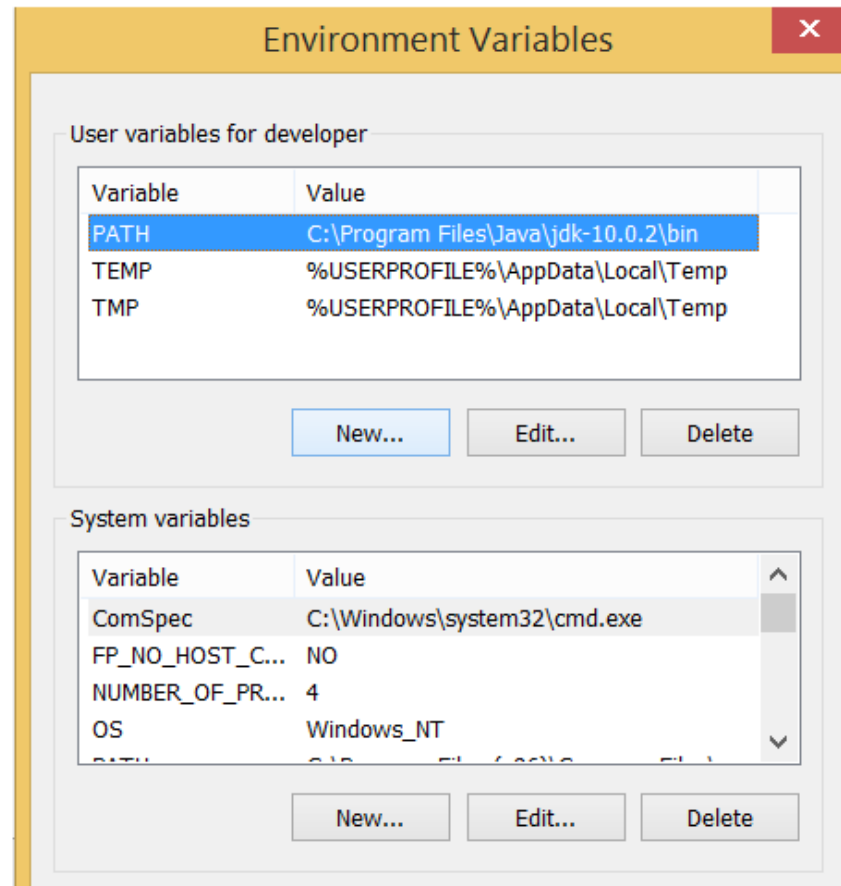
In shell script

>>> import os

>>> print(os.getcwd())

Example:

C:\Users\work\AppData\Local\Programs\Python\Python37-32

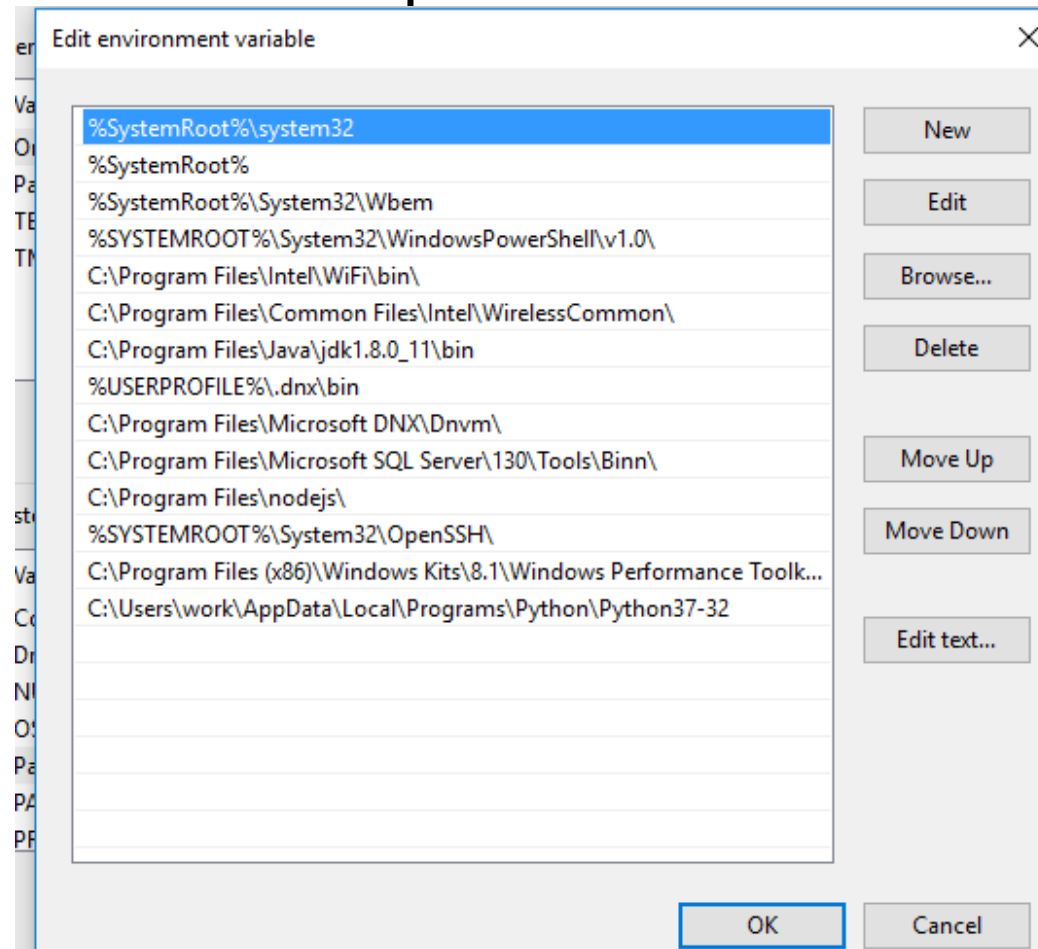➢Now copy this path and open System properties

System Properties

Computer Name | Hardware | **Advanced** | System Protection | Remote

You must be logged on as an Administrator to make most of these changes.

Performance

Visual effects, processor scheduling, memory usage, and virtual memory

Settings...

User Profiles

Desktop settings related to your sign-in

Settings...

Startup and Recovery

System startup, system failure, and debugging information

Settings...

Environment Variables...

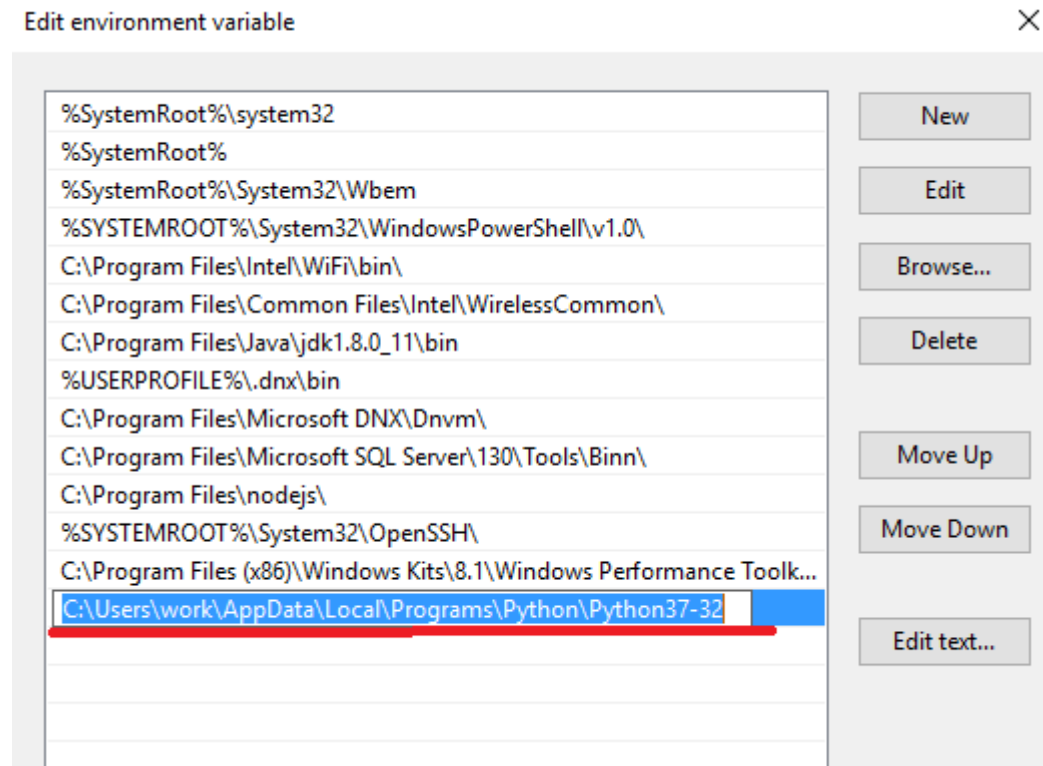➢Select Environment Variable

➢Inside System variable select path and edit

➤Click on New button and paste python file path

How to install Jupyter Notebook on Windows?

Using PIP:

If your Python environment does not have pip installed, there are 2 mechanisms to install pip supported directly by pip's maintainers:

➢ ensurepip

Python comes with an ensurepip module1, which can install pip in a Python environment.

 py -m ensurepip --upgrade

➢ get-pip.py

This is a Python script that uses some bootstrapping logic to install pip.   Download the script, from https://bootstrap.pypa.io/get-pip.py.

Open a terminal/command prompt, cd to the folder containing the get-pip.py file and run:

 py get-pip.py

Upgrading your pip by running:

py -m pip install --upgrade pip

<u>Command to install Jupyter:</u>

python -m pip install jupyter

Launching Jupyter:

<u>Use the following command to launch Jupyter using command-line:</u>

jupyter notebook

Any Query??