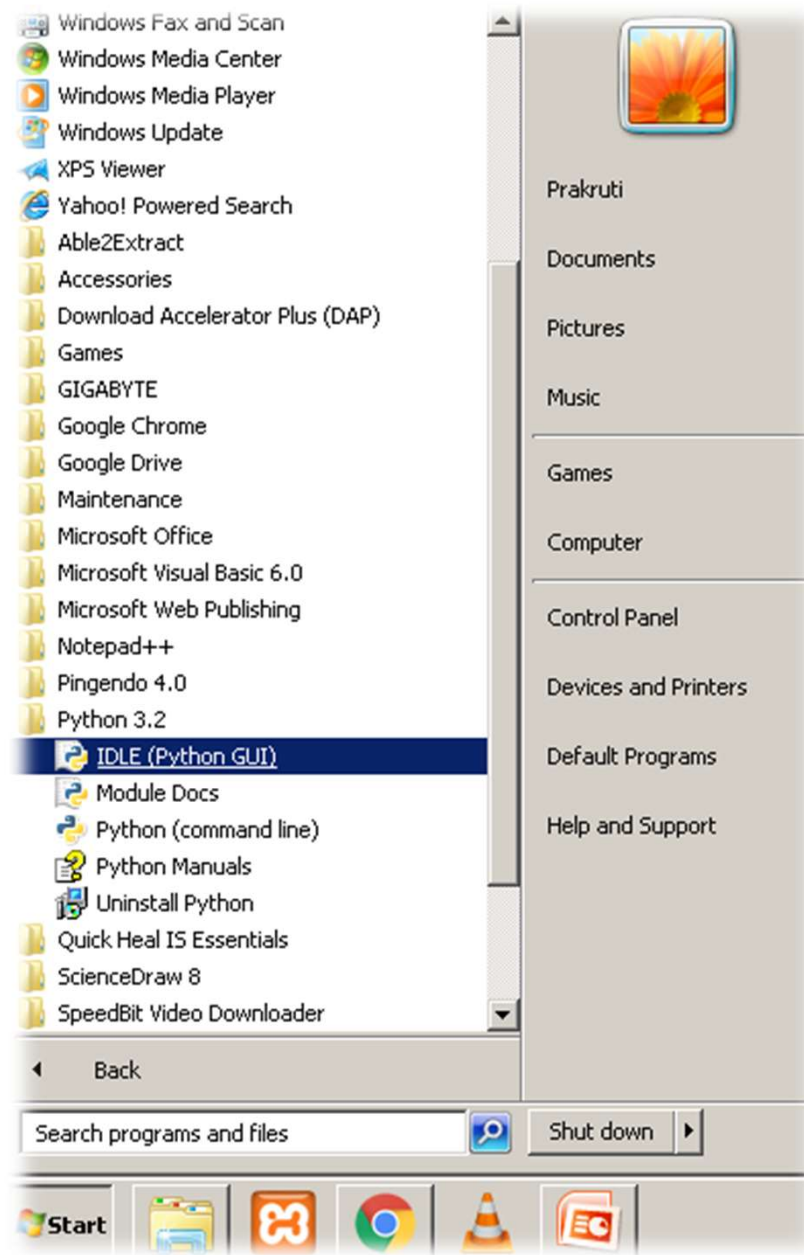# Demo on Python Editors

PYTHON INTRACTIVE MODE PYTHON IDLE

PYTHON SHELL

What is Shell?

A shell is usually an "interactive shell", usually termed a REPL which stands for "Read - Execute - Print - Loop" Most interpreted languages offer a REPL interface - whether its LISP, python, BASIC or Javascript or even DOS batch language or Unix Shells. The interpreter is what actually executes the lines of code.
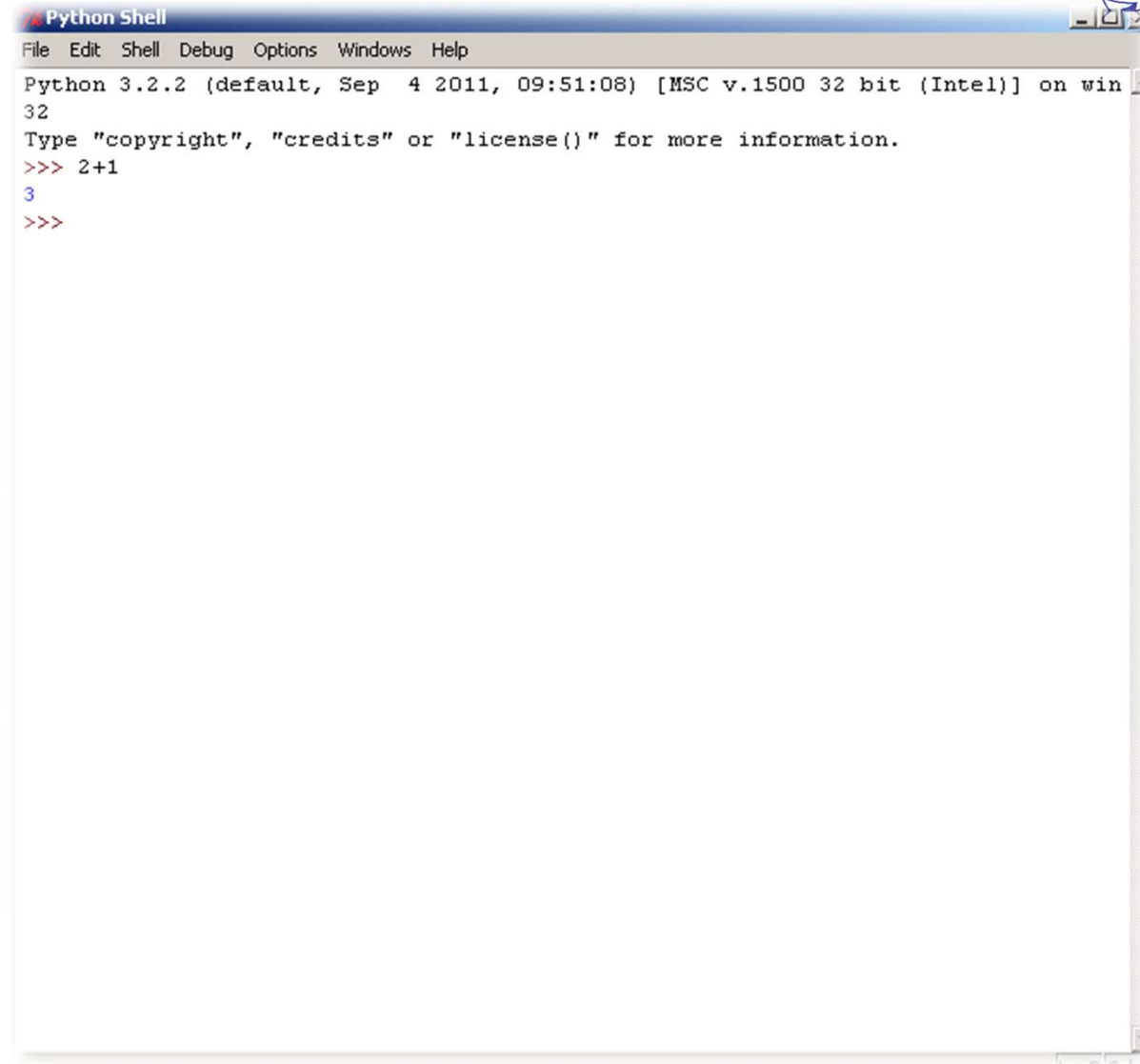
<u>PYTHON SHELL</u>

What is Python Shell or Python Interactive Shell?

The Python interpreter can be used from an interactive shell. The interactive shell is also interactive in the way that it stands between the commands or actions and their execution. ... Python offers a comfortable command line interface with the Python shell, which is also known as the "Python interactive shell".

PYTHON SHELL IDLE

PYTHON BASIC MODES

What are the basic modes of python?

Python has two basic modes:

1) Script and

2) Interactive.

PYTHON BASIC MODES

1) Script Mode:

The normal mode is the mode where the scripted and finished .py files are run in the Python interpreter.

PYTHON BASIC MODES

2) Interactive Mode:

Interactive mode is a command line shell which gives immediate feedback for each statement, while running previously fed statements in active memory.
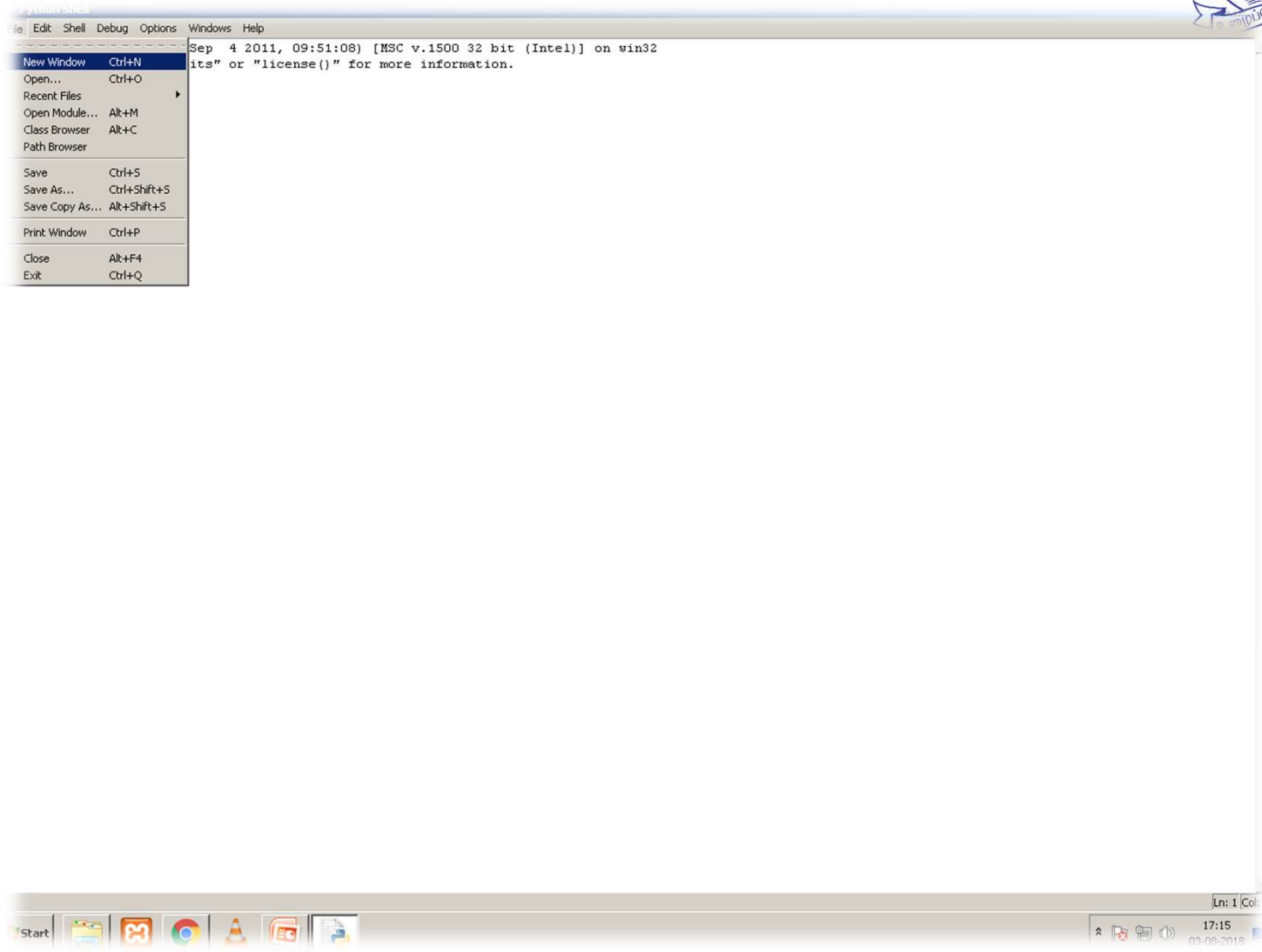
SCRIPT

What is Script?

Scripts are reusable. Basically, a script is a text file containing the statements that comprise a Python program. Once you have created the script, you can execute it over and over without having to retype it each time. Scripts are editable.

INVOKING SCRIPT MODE

INVOKING SCRIPT MODE

```
Python Shell
File  Edit  Shell  Debug  Options  Windows  Help
Python 3.2.2 (default, Sep  4 2011, 09:51:08) [MSC v.1500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> 2+2
4
>>> Python 3.2.2 (default, Sep  4 2011, 09:51:08) [MSC v.1500 32 bit (Intel)] on win32
SyntaxError: invalid syntax
>>> =============
>>>
Hello
>>> =============
>>>
Traceback (most
  File "C:/Pytho
    print(Hello)
NameError: name
>>> =============
>>>
Hello
>>>
```

```
first.py - C:/Python32/first.py
File  Edit  Format  Run  Options  Windows  Help
print("Hello")



                                                    Ln: 2 Col: 0
```
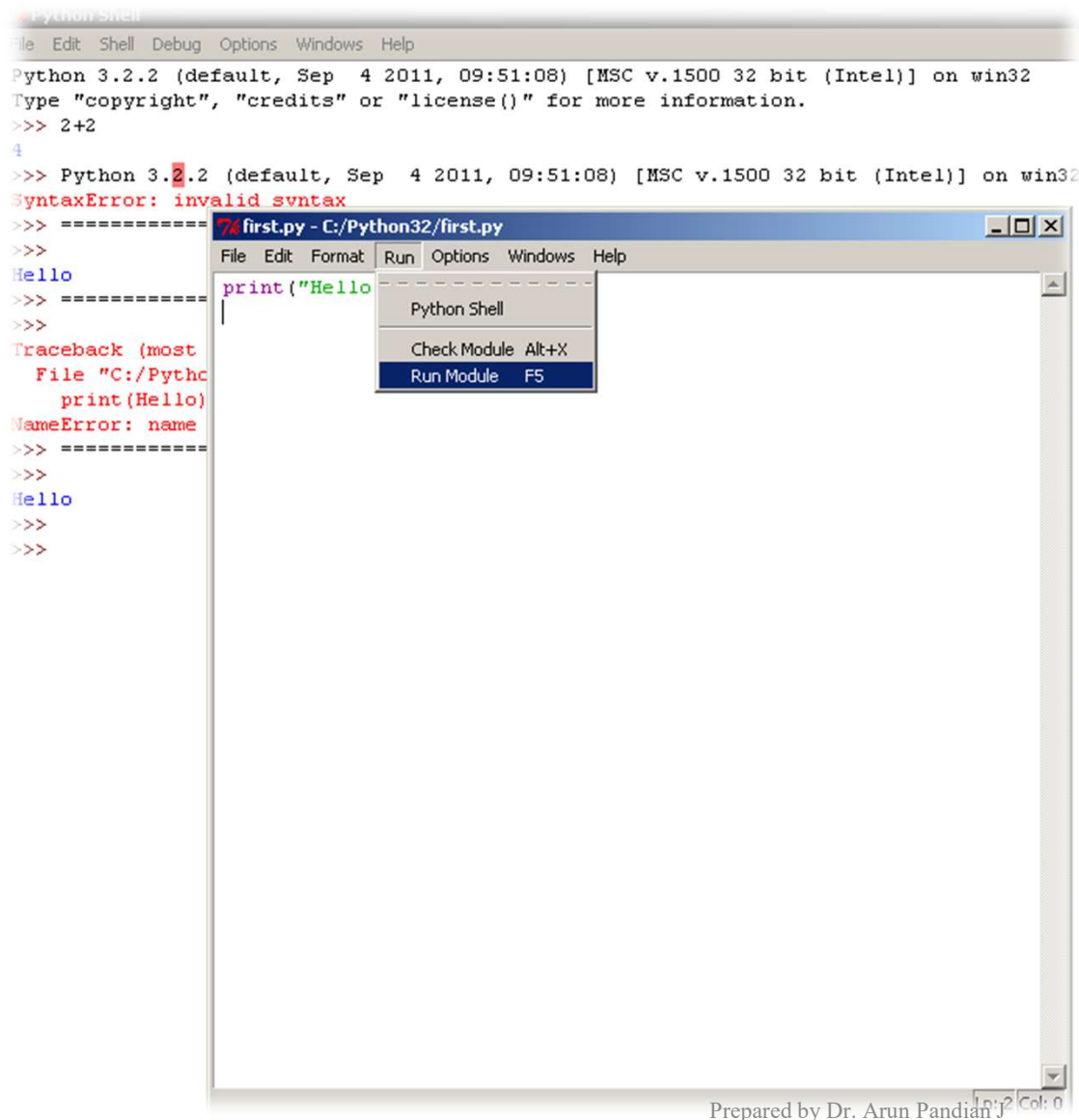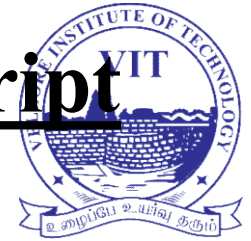
Saving Script / Program File
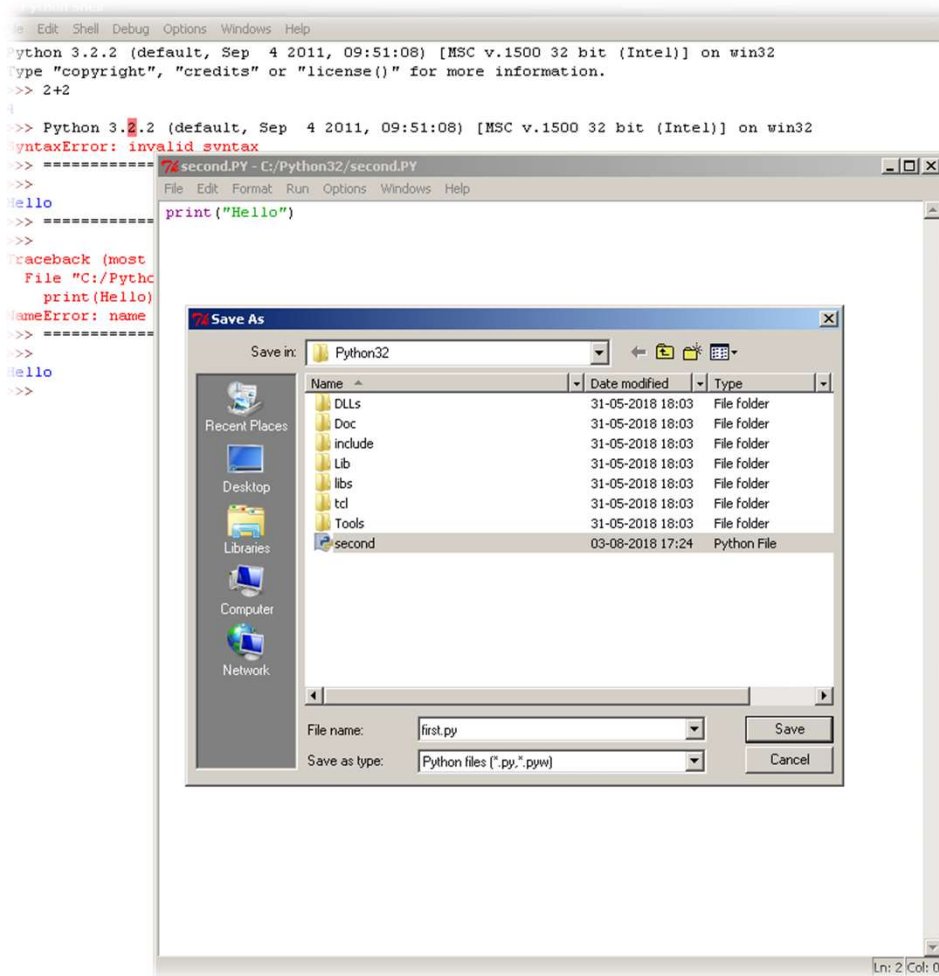
Click On File
Select Save
Give filename with
    py extension

For Example:
first.py
Or
first.PY

Running or Executing   Program / Script

Click On Run Select

Run Module Or F5

WORKING IN ANACONDA

ANACONDA NAVIGATOR
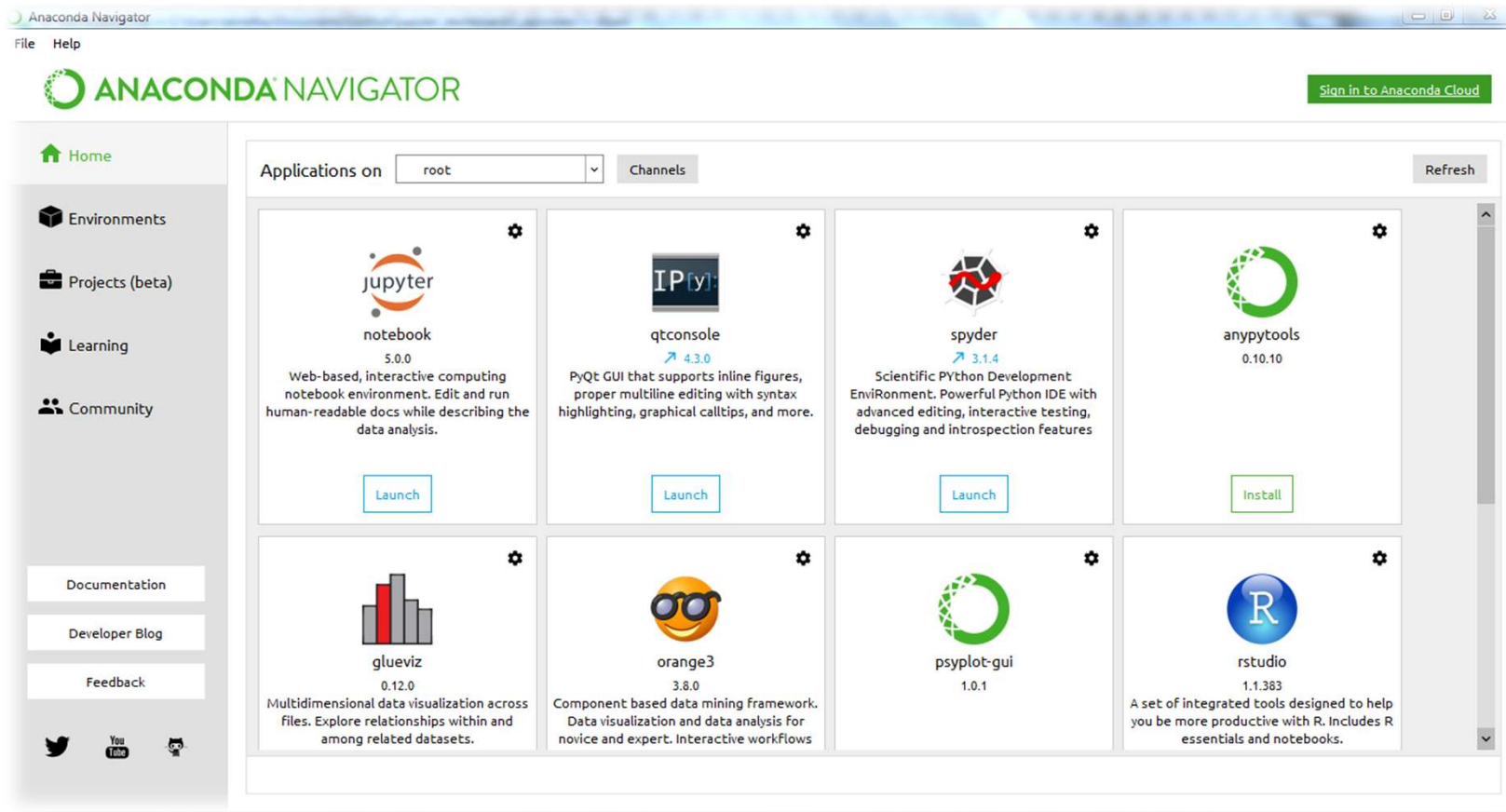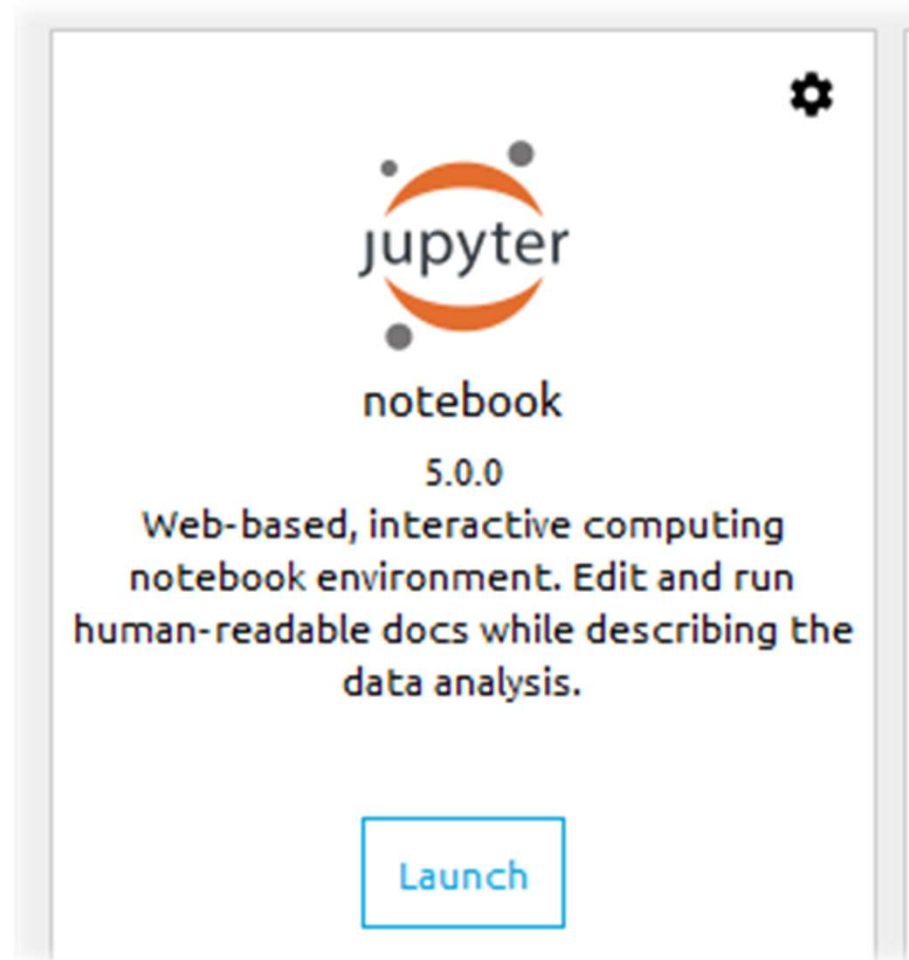
JUPYTER NOTEBOOK IDE

What is Jupyter Notebook?

The Jupyter Notebook is an ANACONDA TOOL and is an open-source web application that allows you to create and share documents that contain live code, equations, visualizations and narrative text.

Note: Jupyter Notebook runs on your browser.

JUPYTER NOTEBOOK IDE

JUPYTER NOTEBOOK IDE

JUPYTER DASHBOARD

JUPYTER INTERACTIVE MODE

JUPYTER SCRIPT MODE

SPYDER IDE

SPYDER IDE

spyder

3.2.3

Scientific PYthon Development EnviRonment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features

Launch
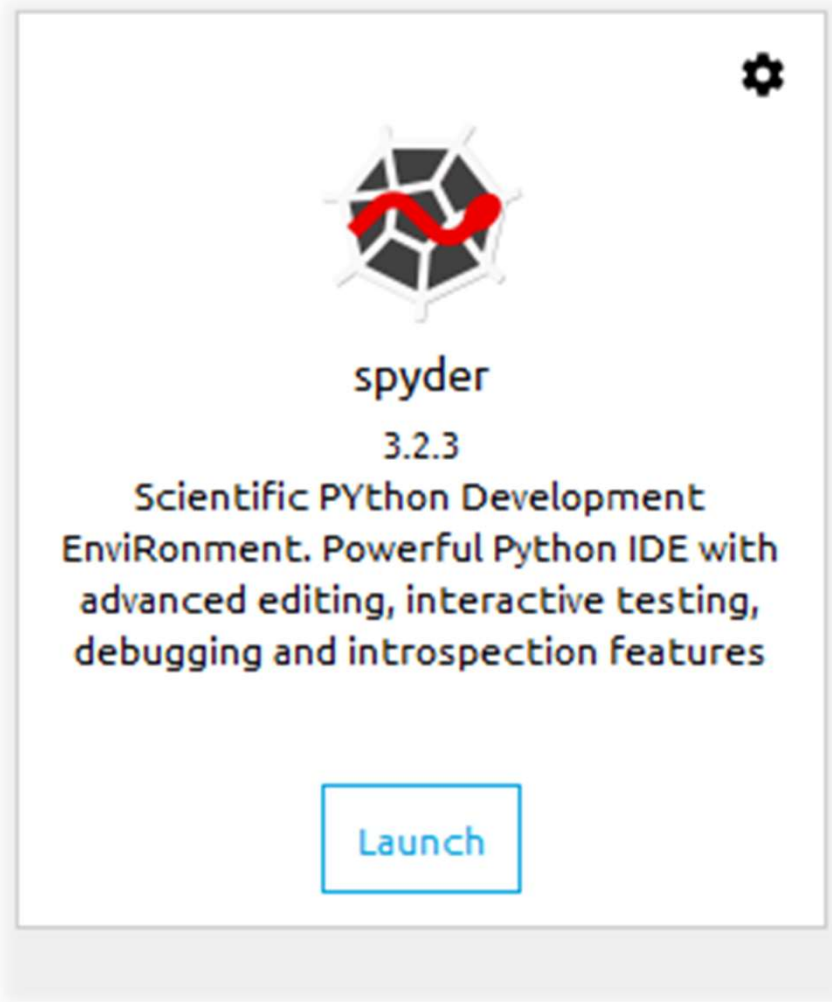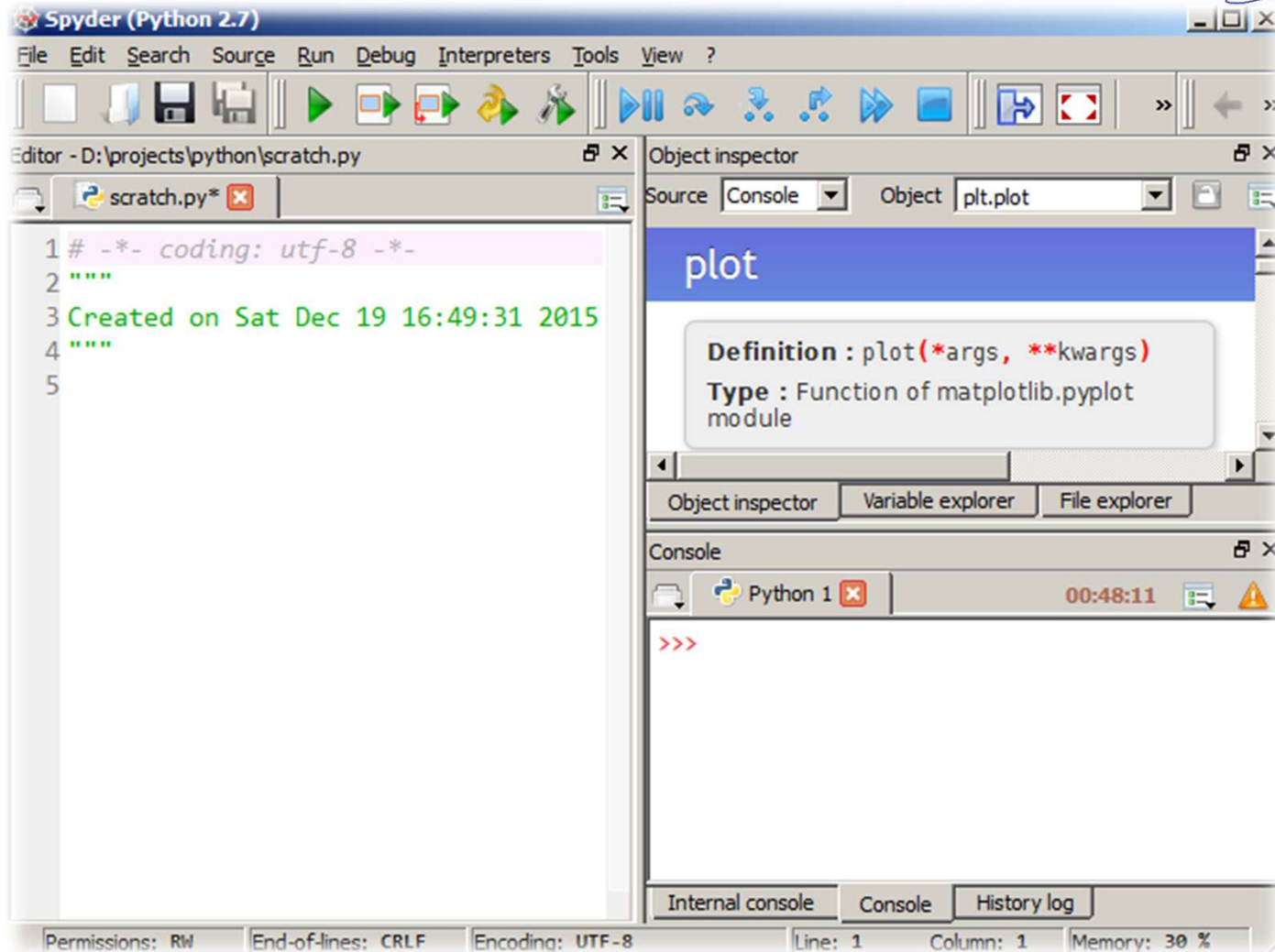
SPYDER IDE

What is Spyder?

Spyder is an open source cross-platform integrated development environment (IDE) for scientific programming in the Python language

SPYDER IDE

PyScripter IDE
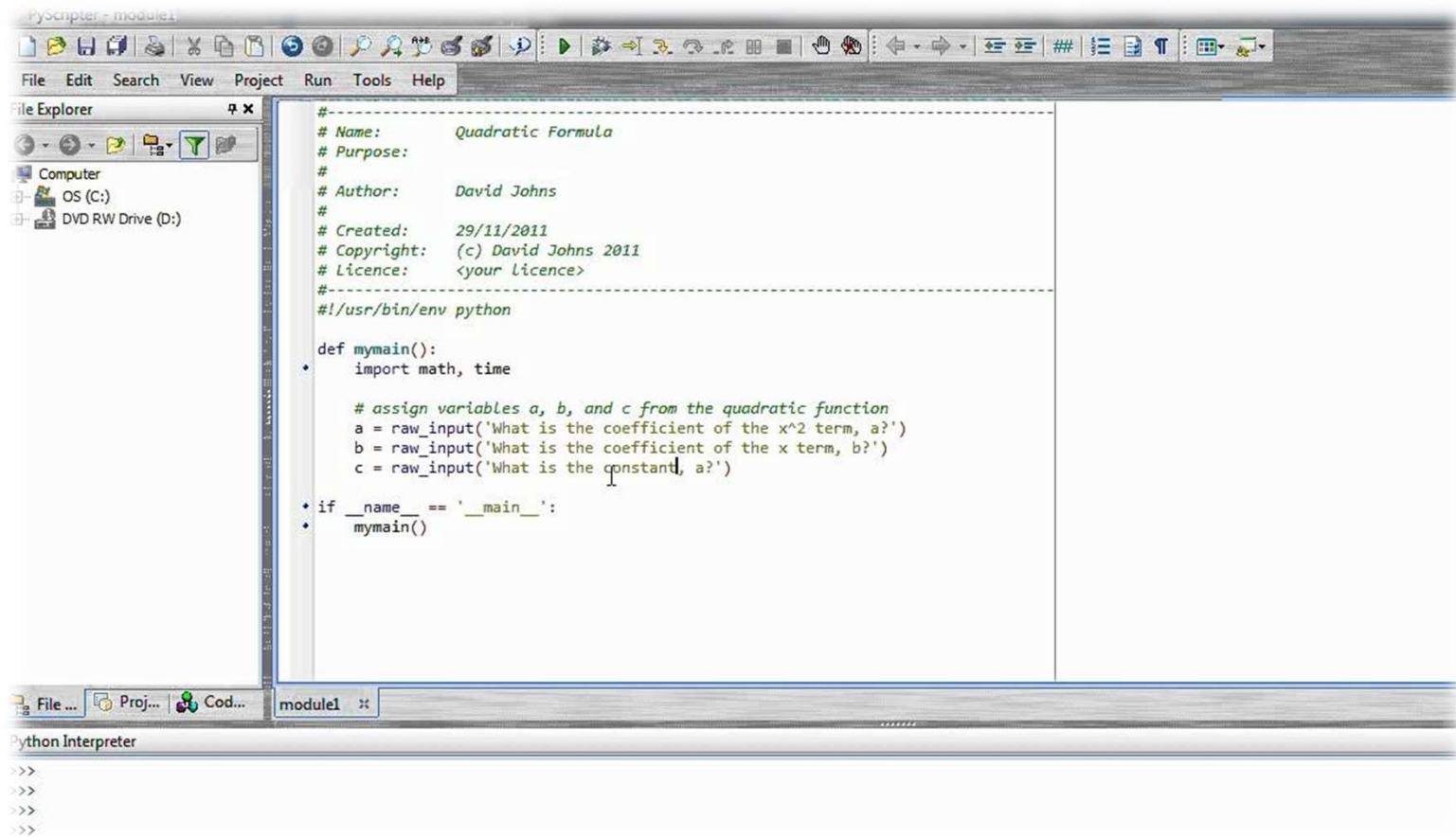
PyScripter IDE

What is PyScripter?

PyScripter is a free and open-source Python Integrated Development Environment (IDE) created with the ambition to become competitive in functionality with commercial Windows-based IDEs available for other languages

PyScripter IDE

Hello World Program

```python
print("Hello World")
```

Demo on IDE


```
IDLE Shell 3.11.2
File  Edit  Shell  Debug  Options  Window  Help
    Python 3.11.2 (tags/v3.11.2:878ead1,
    AMD64)] on win32
    Type "help", "copyright", "credits" o
>>> print("hello World")
    hello World
>>>
```