



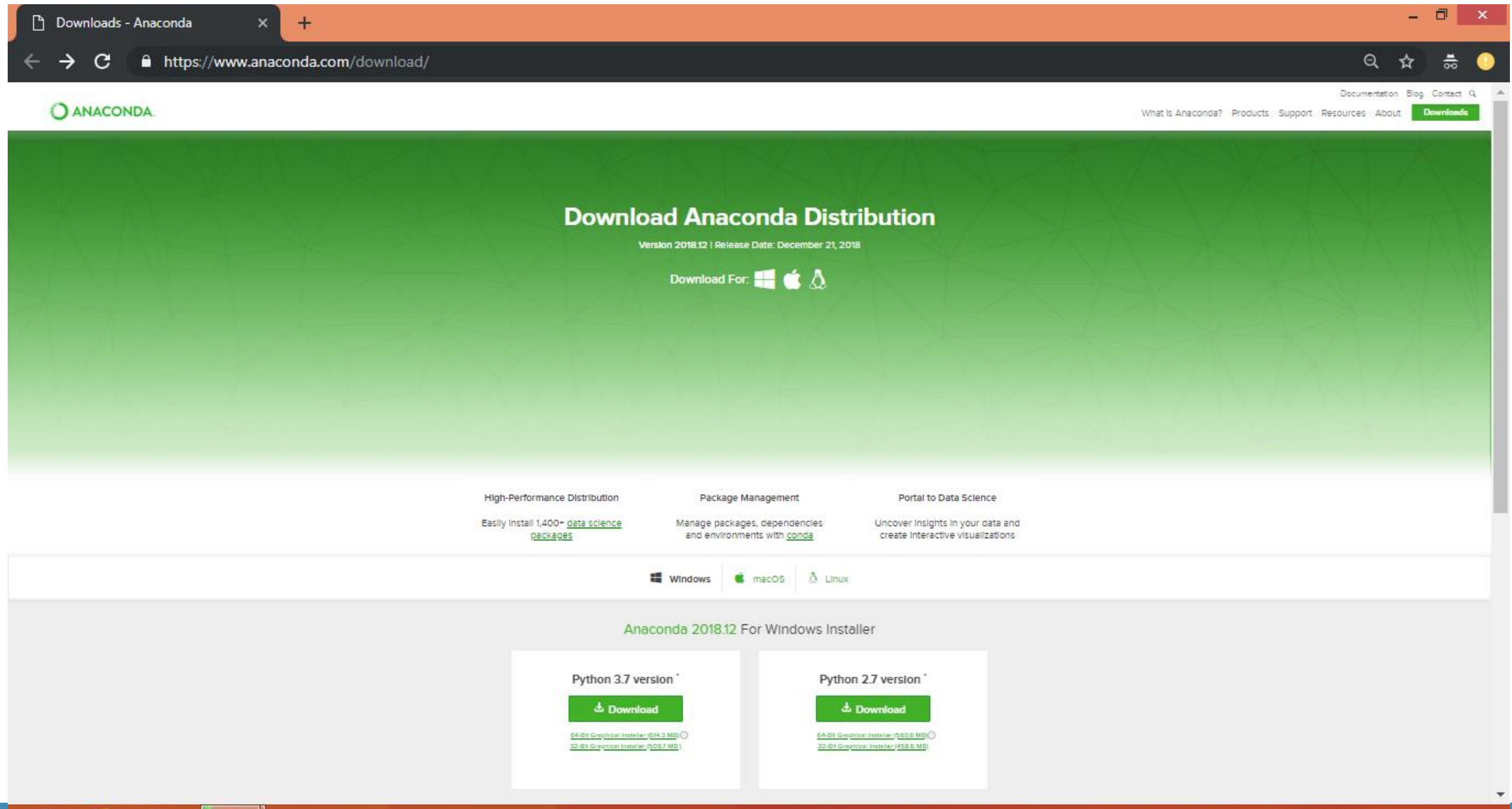
Python (3.7) : Windows Installation Tutorial

For Python Help:

Contact : santosh.d@germi.res.in

Step-1 : Python Download -

To download Python goto <https://www.anaconda.com/download/>



The screenshot shows a web browser window with the address bar displaying <https://www.anaconda.com/download/>. The page features the Anaconda logo in the top left and a navigation menu in the top right including links for Documentation, Blog, Contact, and a green Downloads button. The main content area has a green background with the heading "Download Anaconda Distribution" and the text "Version 2018.12 | Release Date: December 21, 2018". Below this, it says "Download For:" followed by icons for Windows, macOS, and Linux. A section below highlights three features: "High-Performance Distribution" (Easily install 1,400+ [data science packages](#)), "Package Management" (Manage packages, dependencies and environments with [conda](#)), and "Portal to Data Science" (Uncover insights in your data and create interactive visualizations). At the bottom, there are tabs for Windows, macOS, and Linux. The "Windows" tab is selected, showing "Anaconda 2018.12 For Windows Installer". Under this, there are two download options: "Python 3.7 version" and "Python 2.7 version". Each option has a green "Download" button and a link to the installer file (e.g., [64-bit Graphical Installer \(64.3 MB\)](#)).

Step-2 : Python Download – Select Windows Option



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High-Performance Distribution

Easily install 1,400+ [data science packages](#)

Package Management

Manage packages, dependencies and environments with [conda](#)

Portal to Data Science

Uncover insights in your data and create interactive visualizations

Select Windows Option



 **Windows**

 **macOS**

 **Linux**

Anaconda 2018.12 For Windows Installer

Python 3.7 version *

 **Download**

[64-Bit Graphical Installer \(614.3 MB\)](#) 

[32-Bit Graphical Installer \(509.7 MB\)](#)

Python 2.7 version *

 **Download**

[64-Bit Graphical Installer \(560.6 MB\)](#) 

[32-Bit Graphical Installer \(458.6 MB\)](#)

Step-3 : Python Download – Select Python 3.7 version



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High-Performance Distribution

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Windows



macOS



Linux

Anaconda 2018.12 For Windows Installer

Select Python 3.7 version

Python 3.7 version *

↓ Download

[64-Bit Graphical Installer \(614.3 MB\) ?](#)
[32-Bit Graphical Installer \(509.7 MB\)](#)

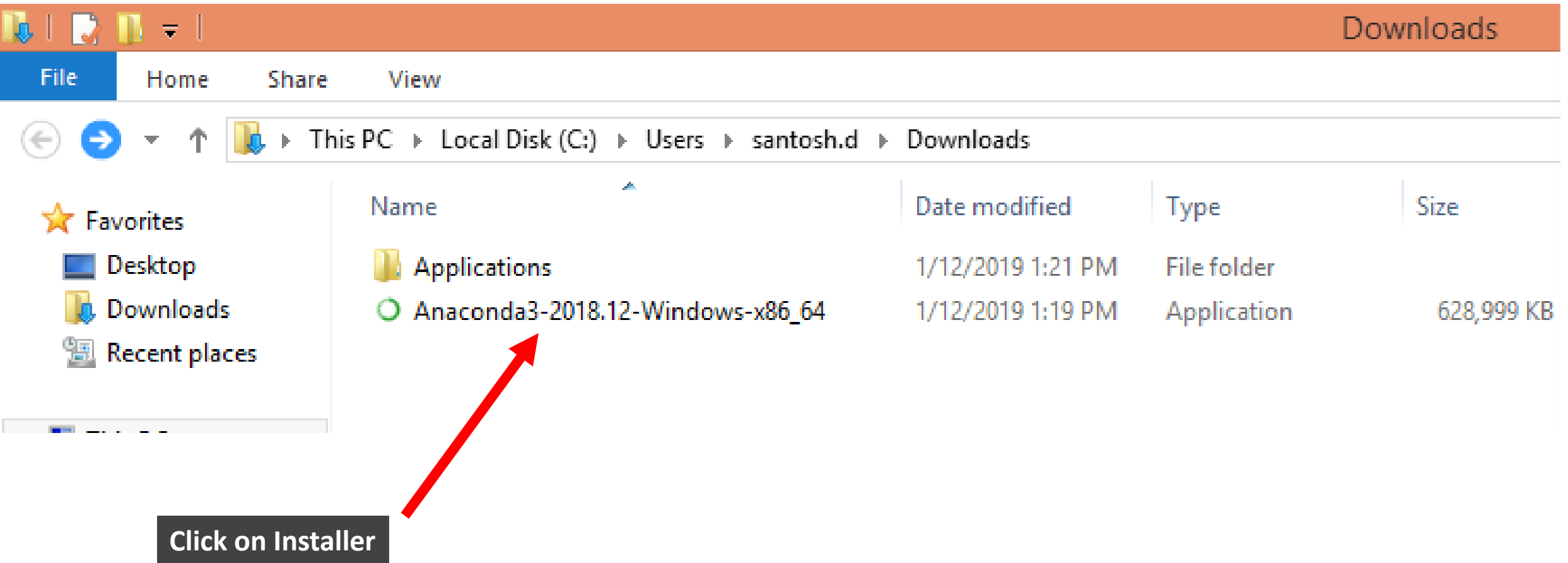
614 MB File

Python 2.7 version *

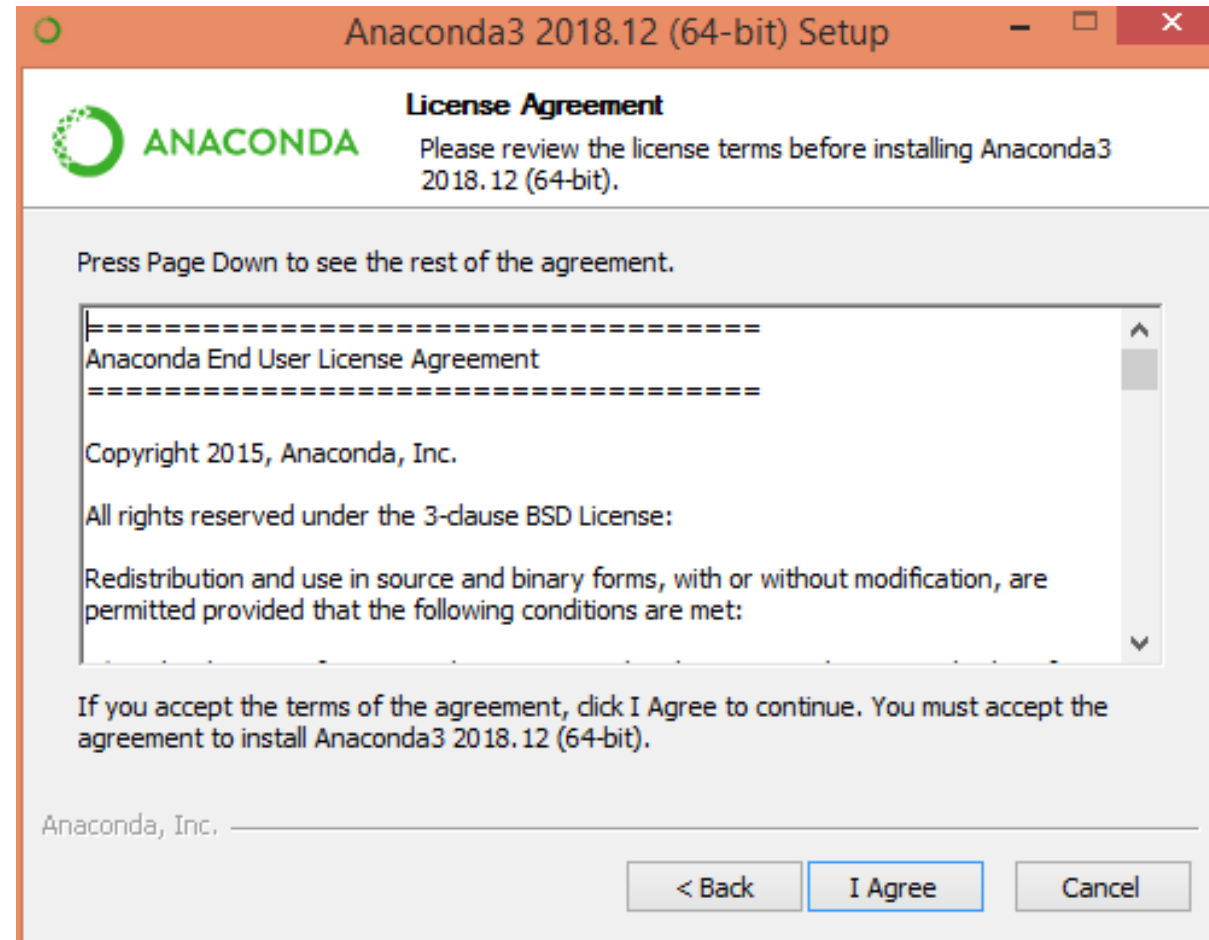
↓ Download

[64-Bit Graphical Installer \(560.6 MB\) ?](#)
[32-Bit Graphical Installer \(458.6 MB\)](#)

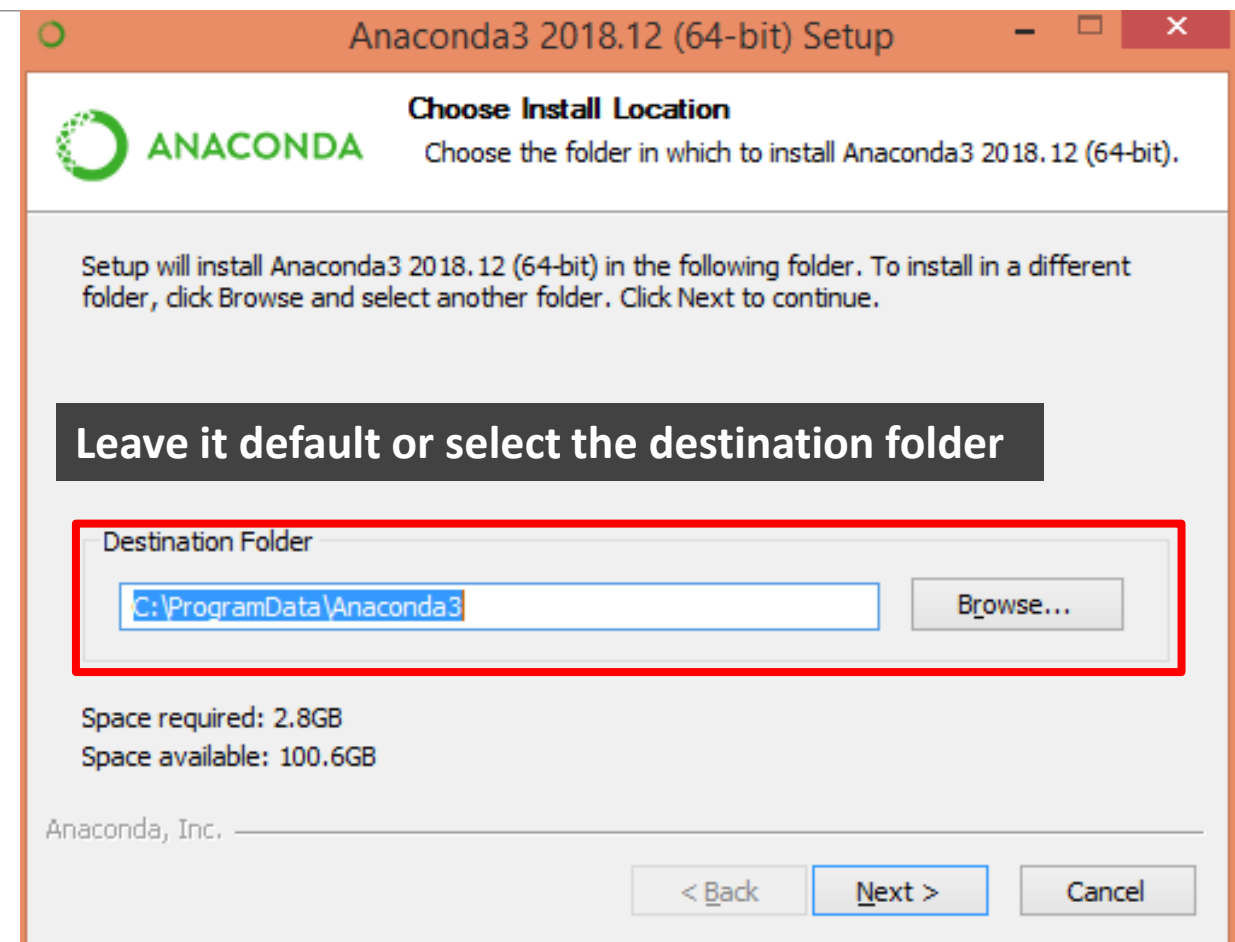
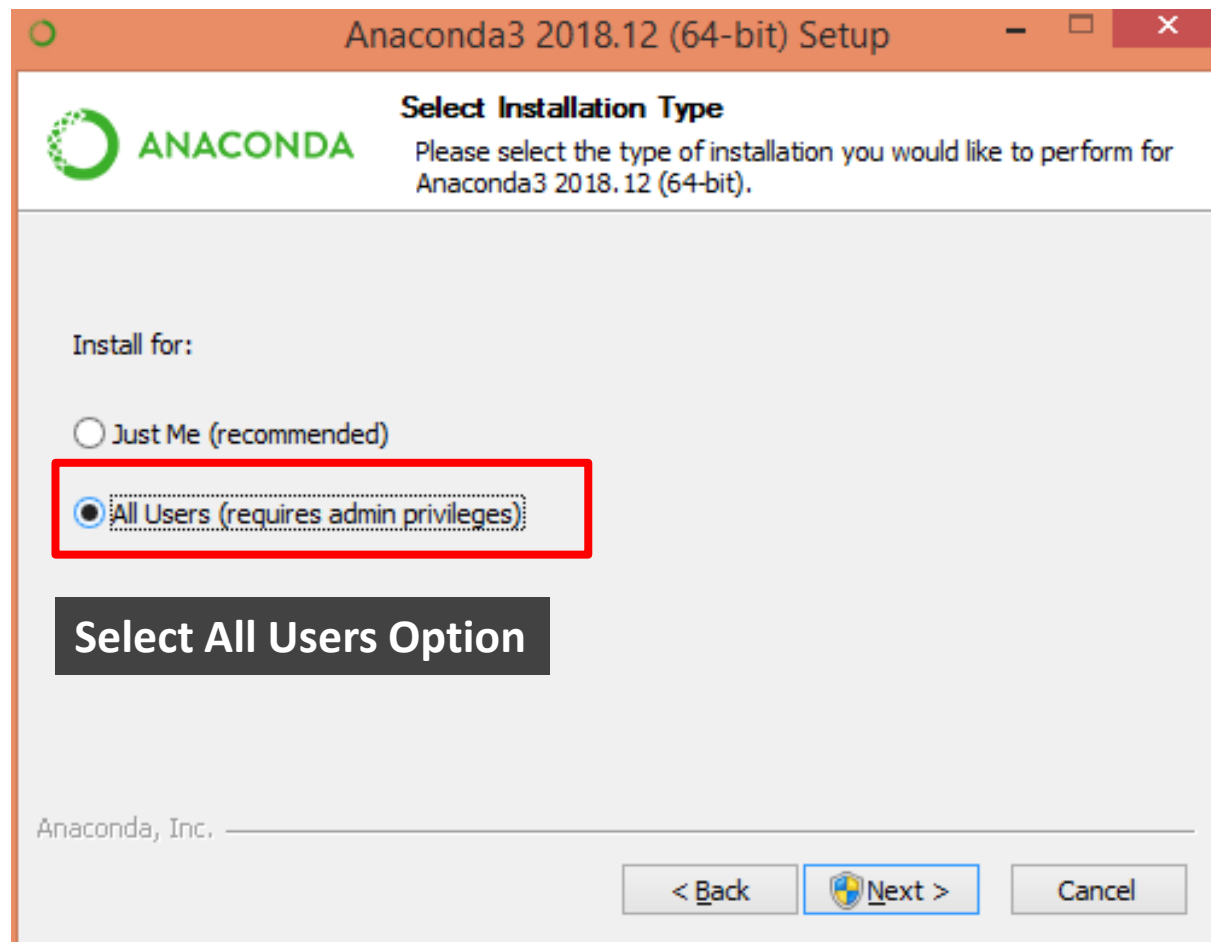
Step-4 : Python Installation – Click on Downloaded Installer



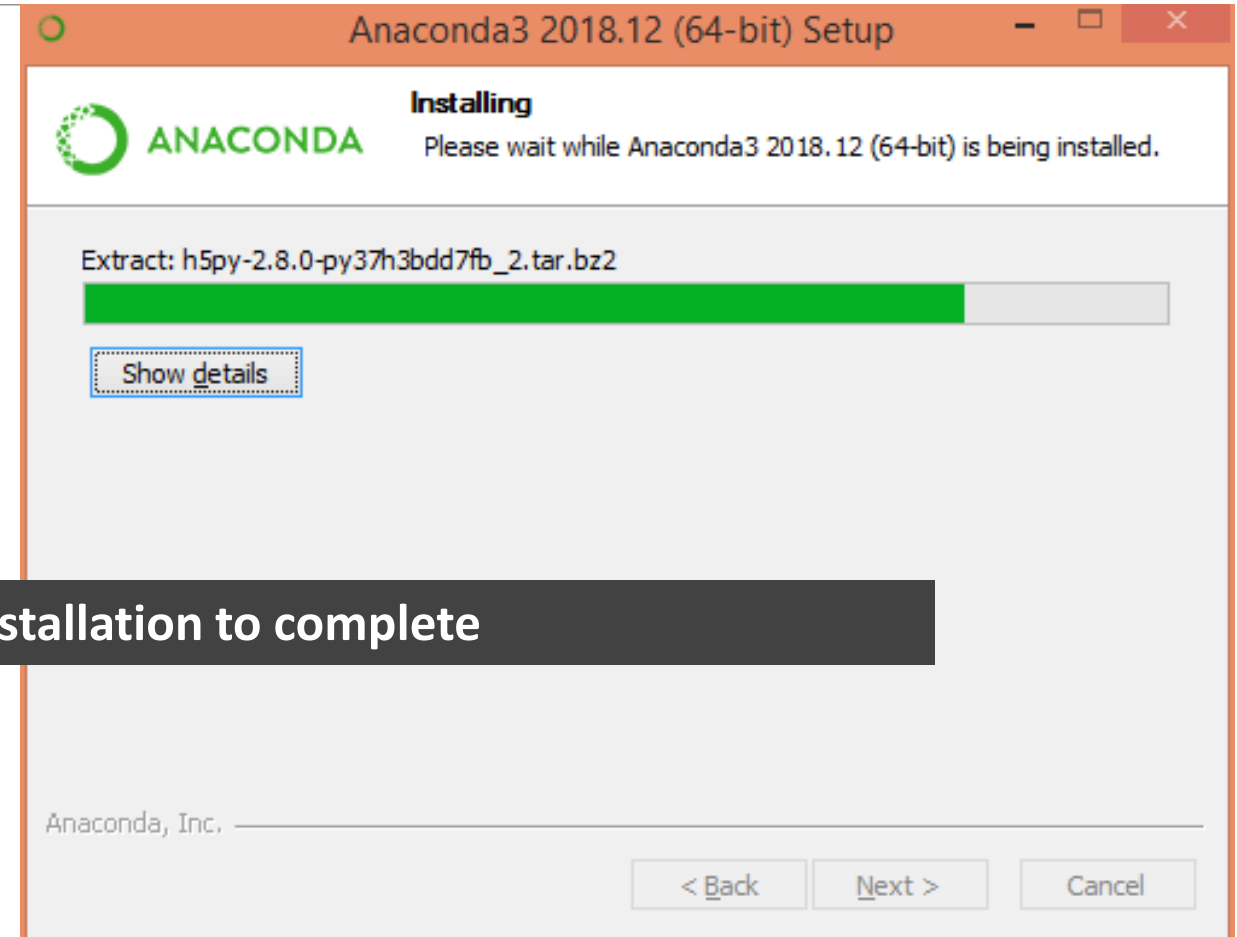
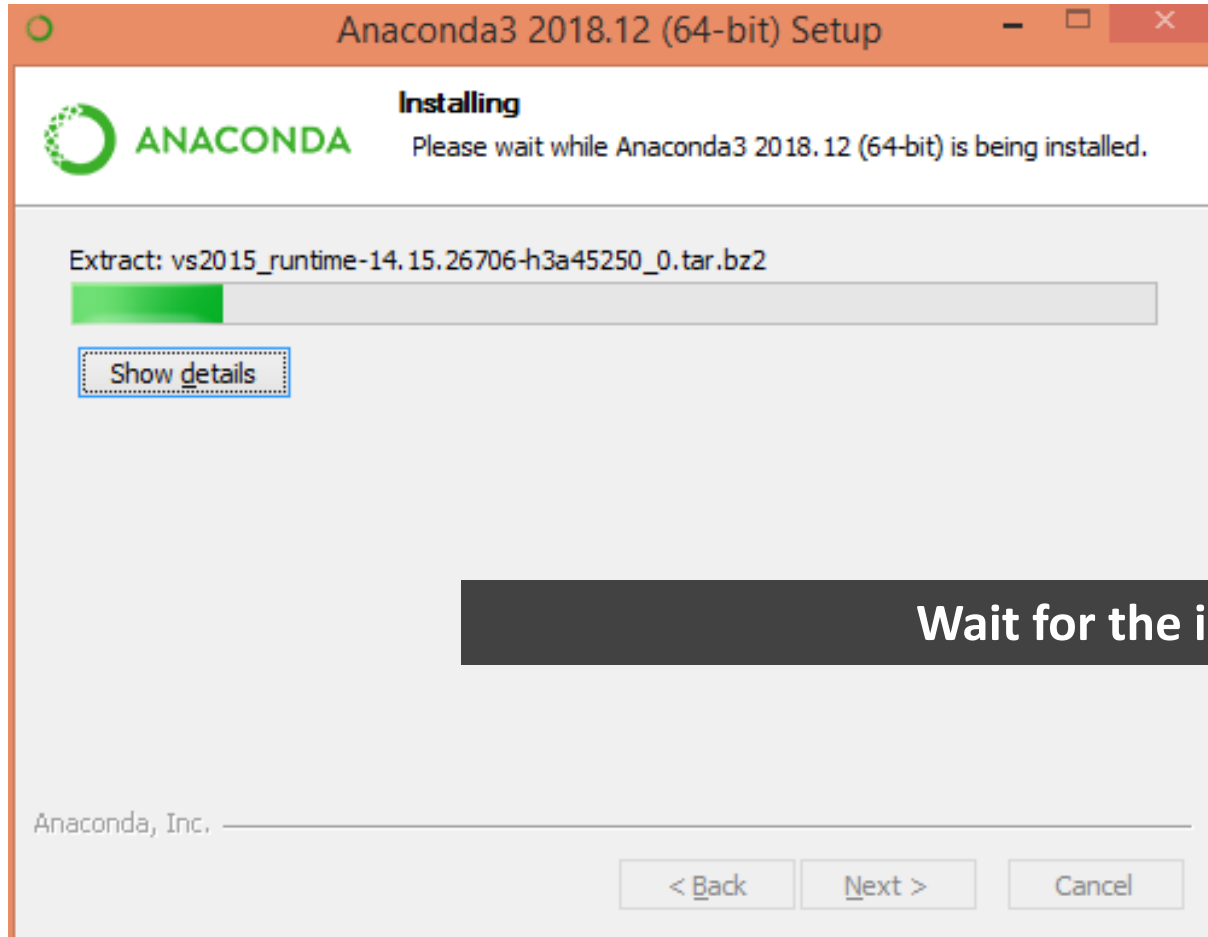
Step-5 : Python Installation – Continue and Accept the Terms and Condition



Step-6 : Python Installation – Select Installation type and Location



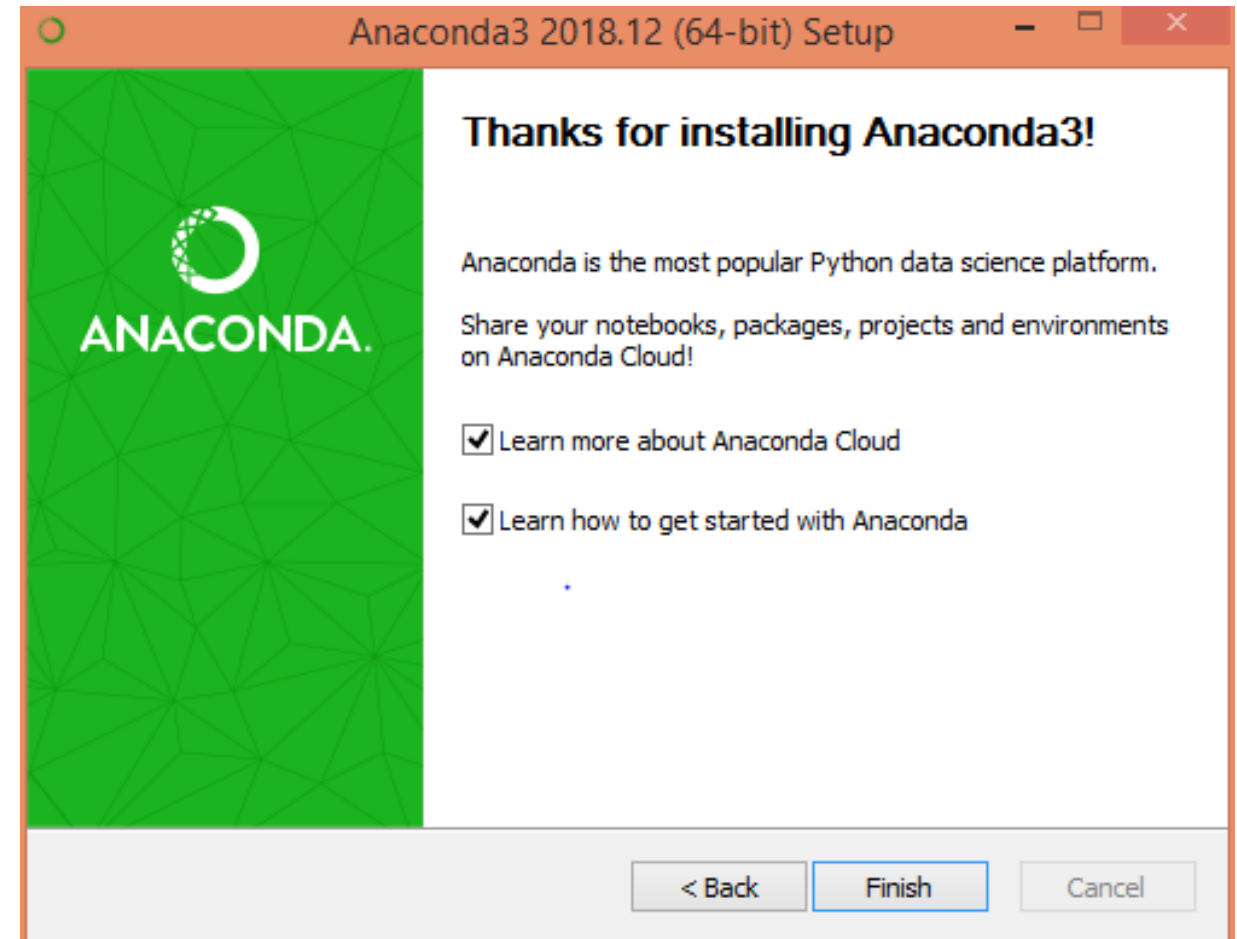
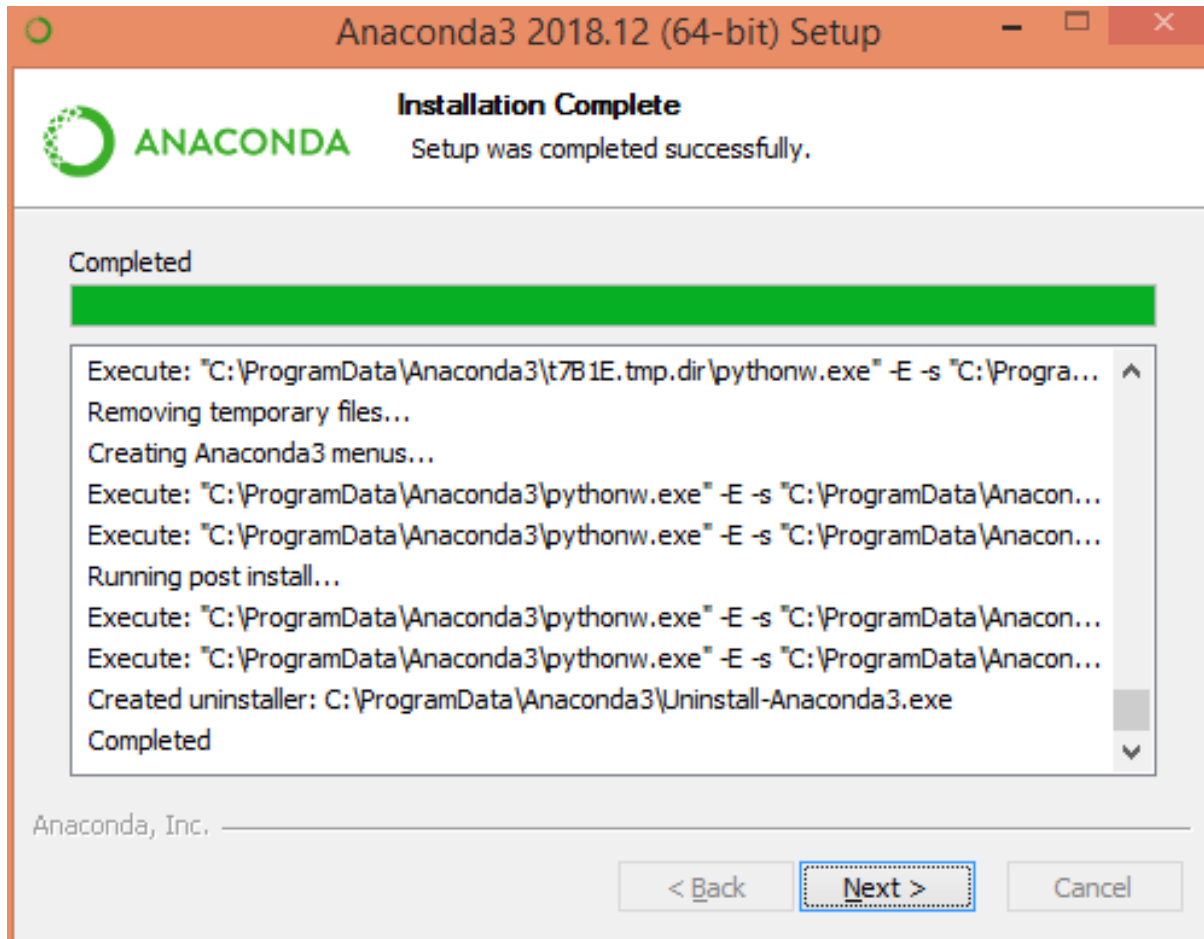
Step-7 : Python Installation



Wait for the installation to complete

Step-7 : Python Installation

Wait for the installation to complete and at finish you can get more idea about Anaconda



Step-8 : Python Installation : Firewall Settings

Allow access if asked by Firewall



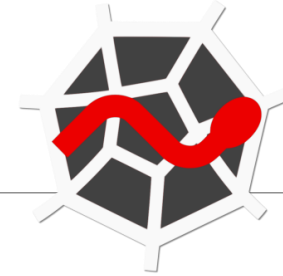
Installation Completed
Installer should have installed following applications and required Libraries

- 1) Anaconda Navigator
- 2) Spyder – Python IDE
- 3) Jupyter Notebook

Installation Testing

Step-1 : Python Testing (through Spyder)

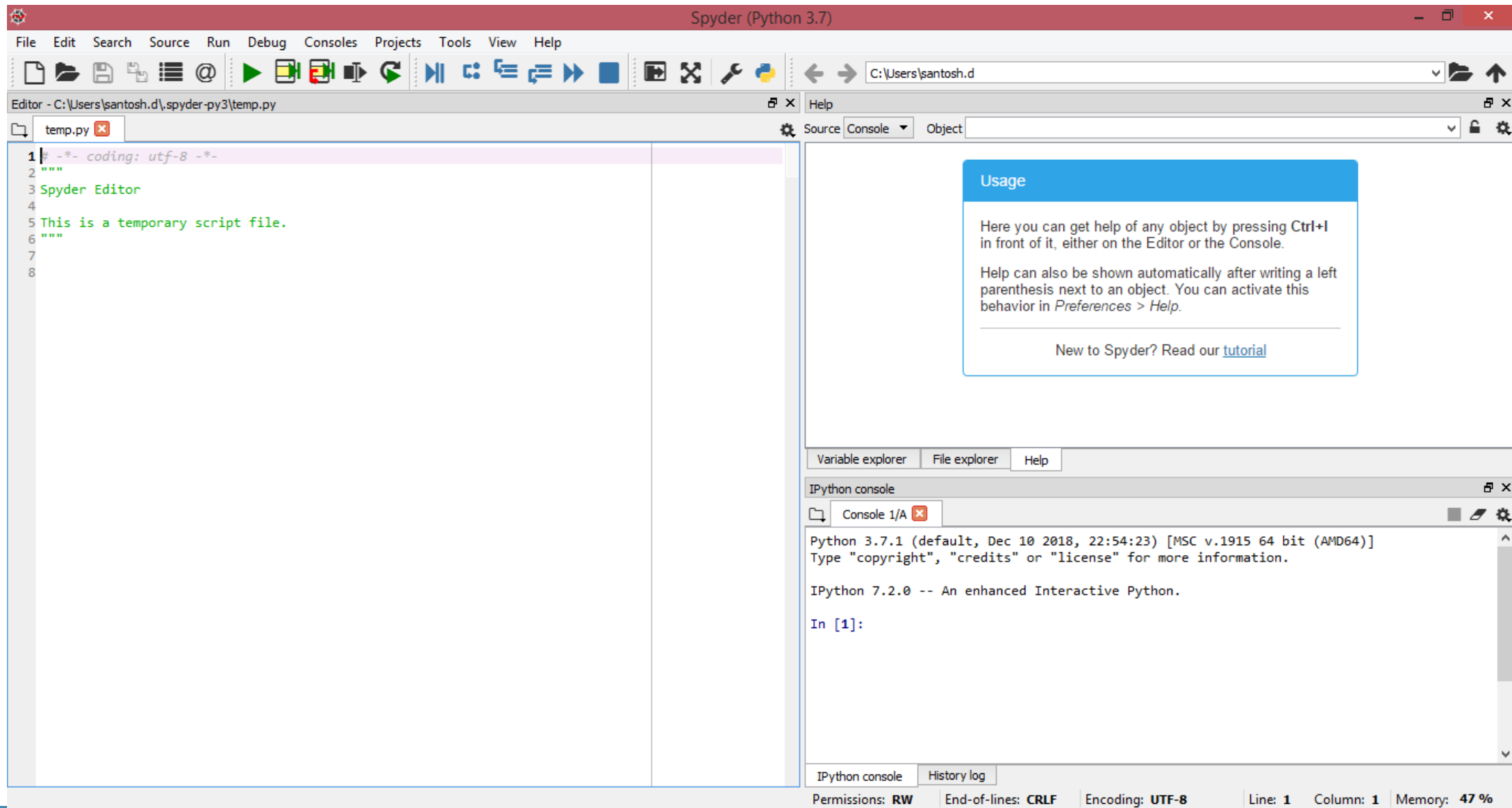
Start Spyder – IDE (Best way is to search Spyder).. Look for Icon



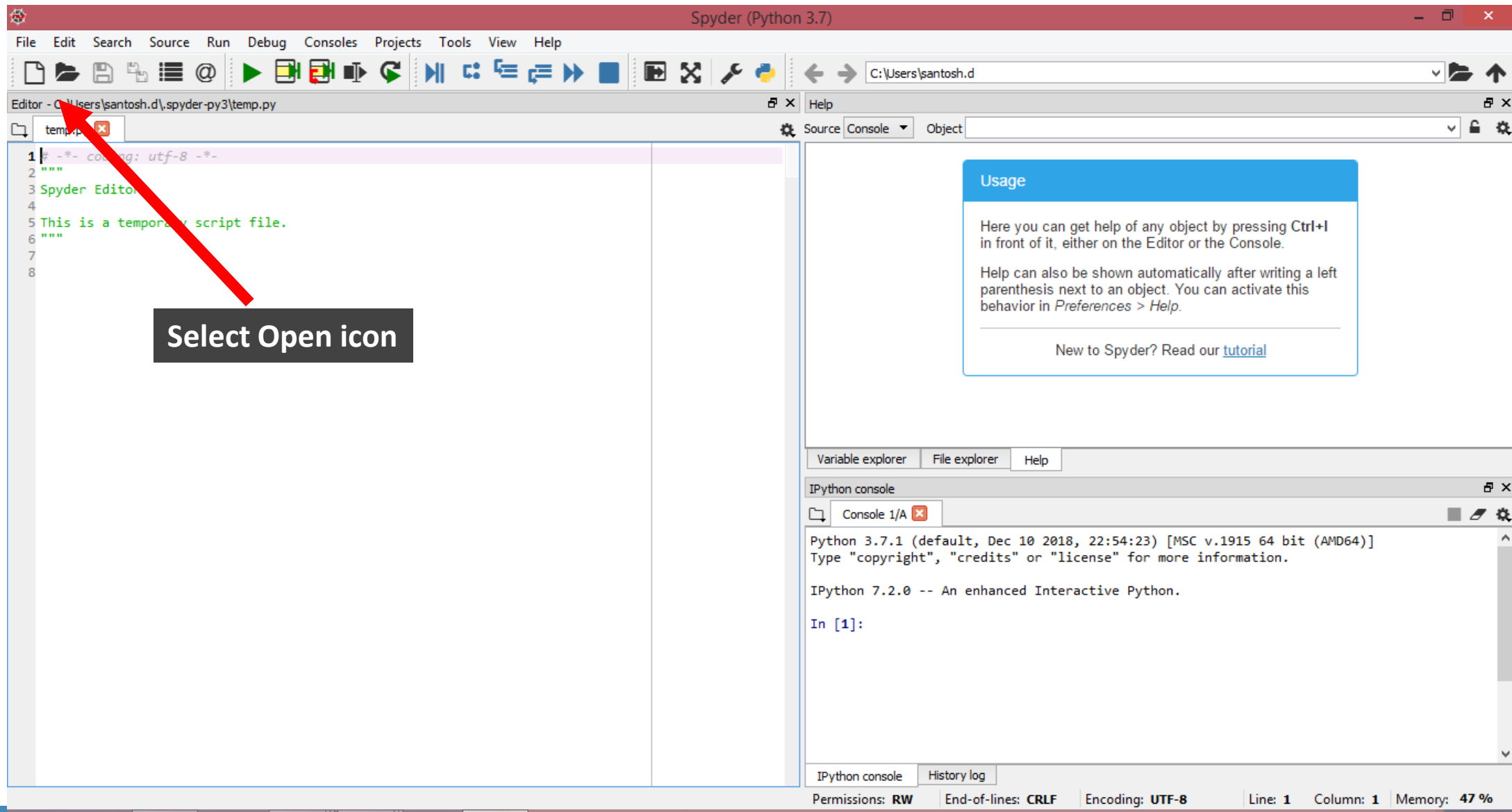
Shortcut for starting Spyder can be found in following folder :

C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Anaconda3 (64-bit)

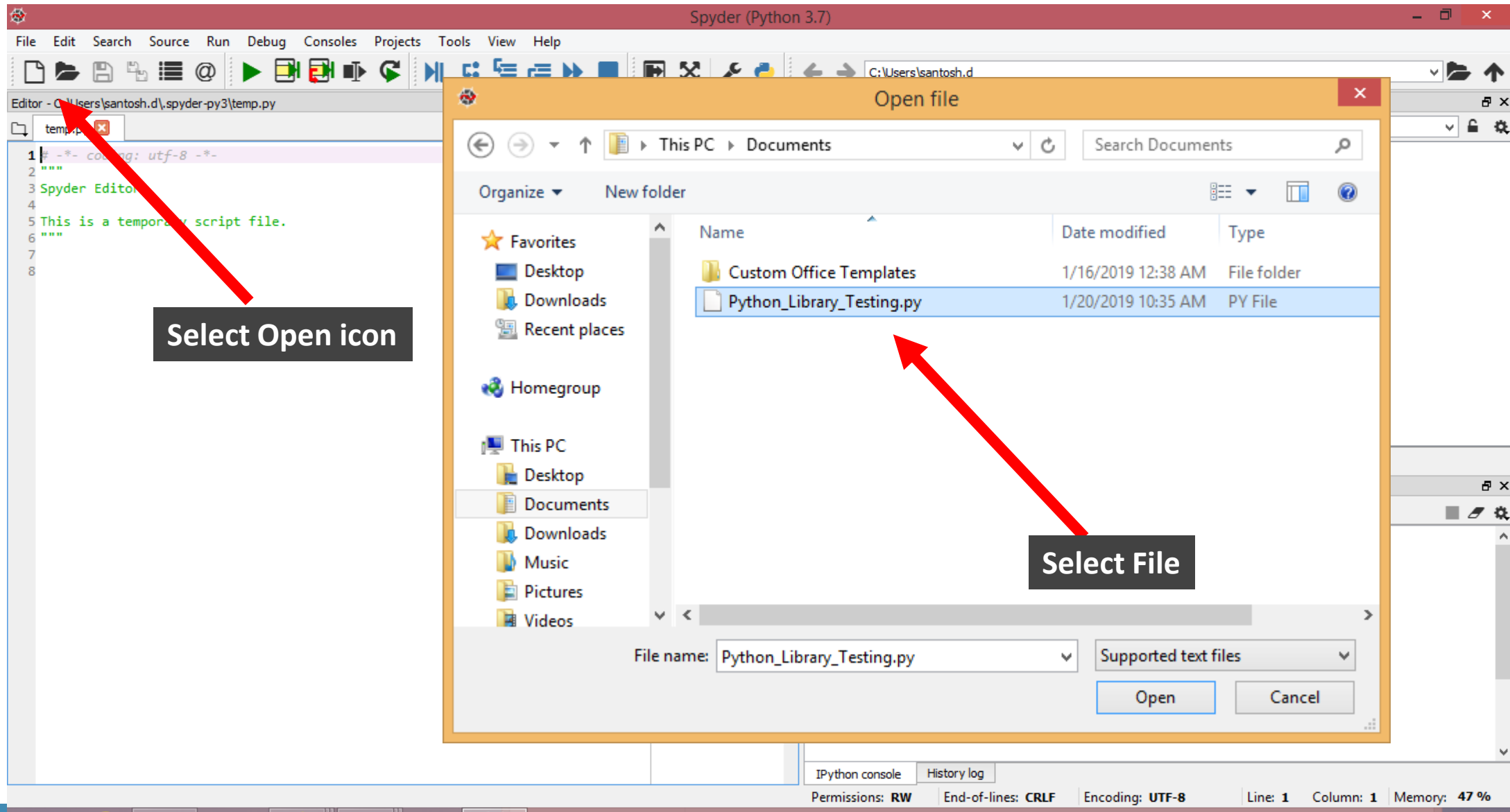
Step-2 : Spyder IDE Window



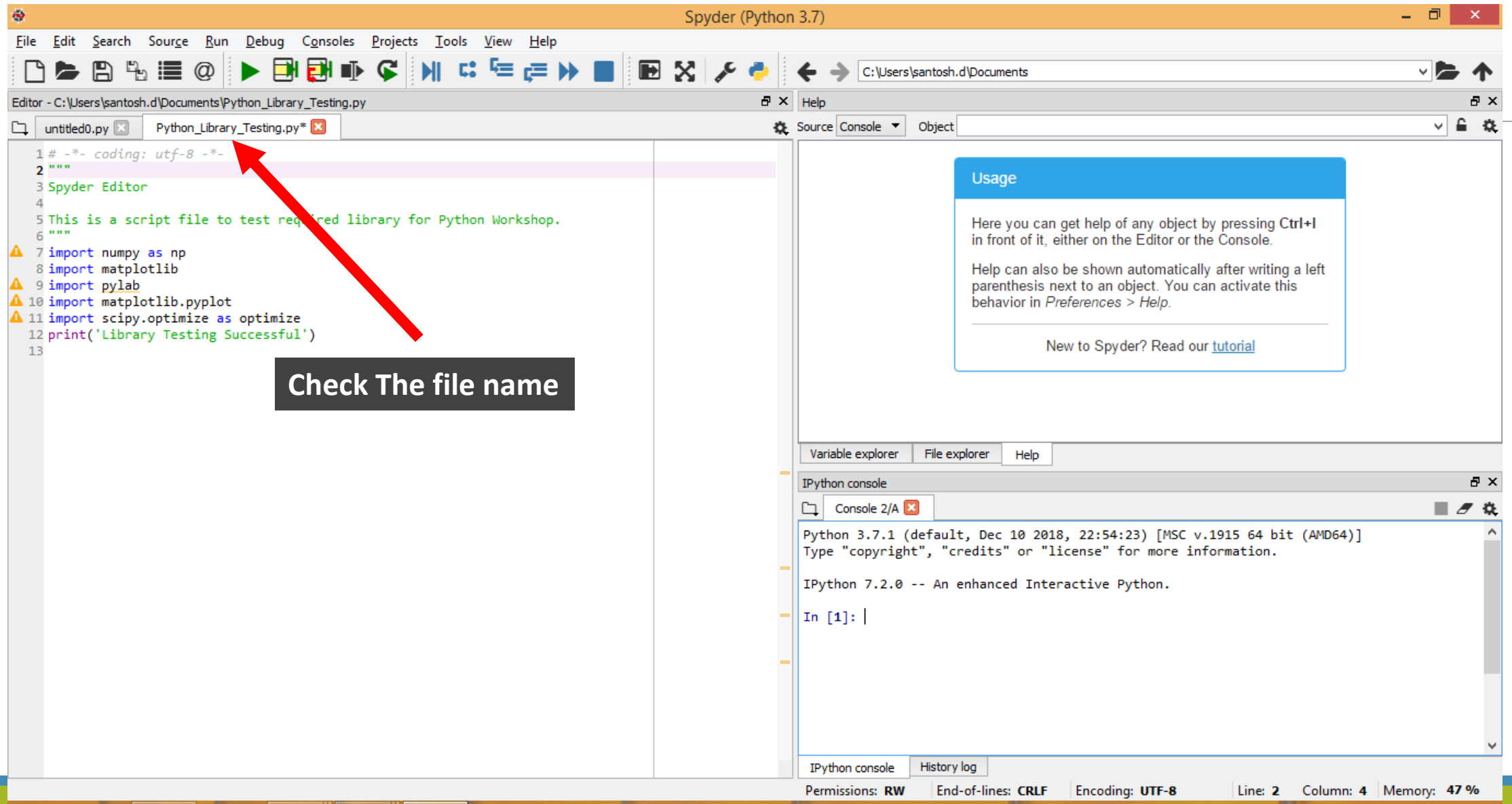
Step-3 : Spyder IDE Window : Open “Python_Library_Testing.py” File



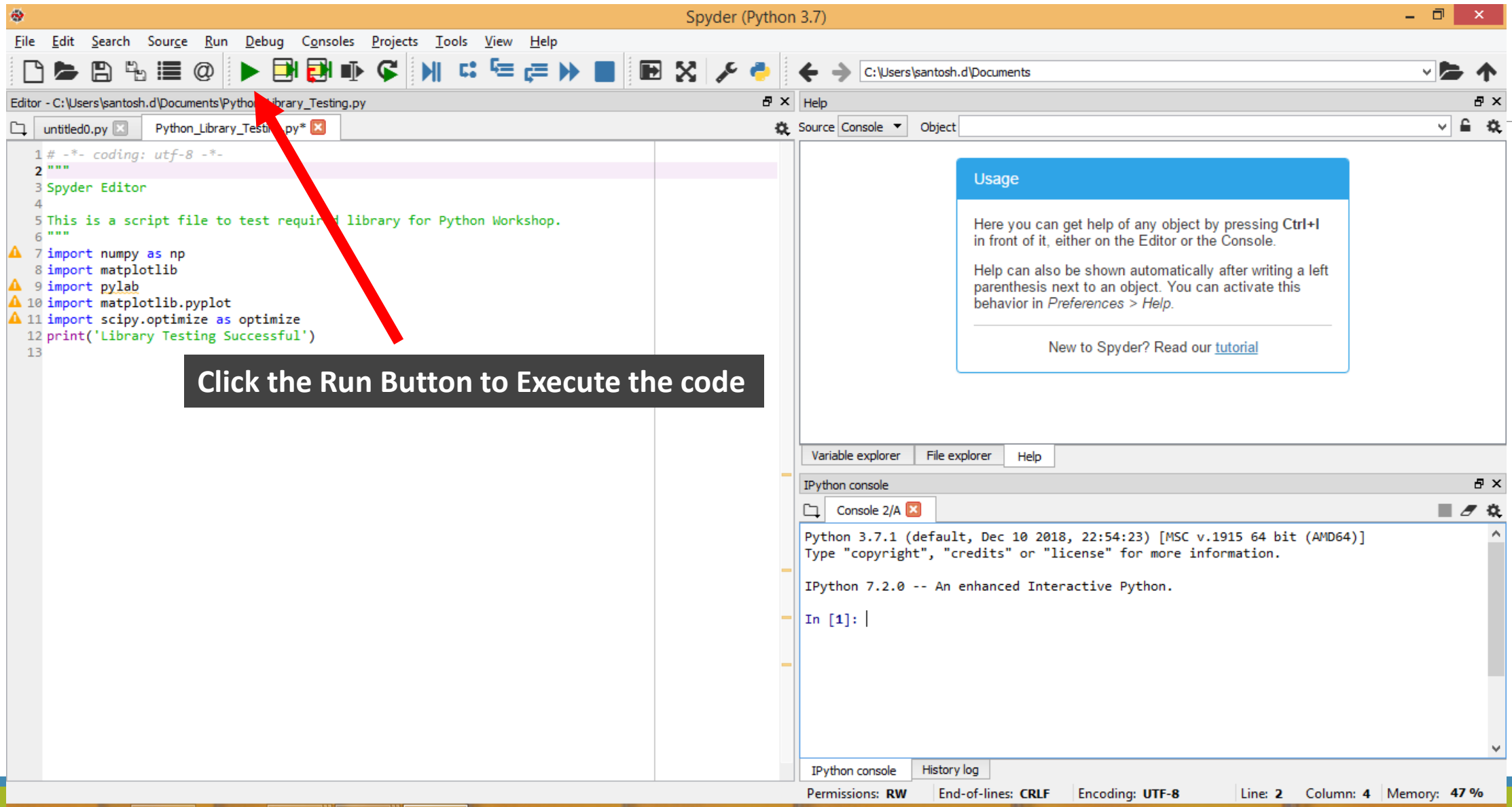
Step-3 : Spyder IDE Window : Open “Python_Library_Testing.py” File



Step-3 : Spyder IDE Window : Run “Python_Library_Testing.py” File



Step-4 : Spyder IDE Window : Run “Python_Library_Testing.py” File



The screenshot displays the Spyder IDE window for Python 3.7. The main editor shows a file named `Python_Library_Testing.py` with the following code:

```
1 # -*- coding: utf-8 -*-
2 """
3 Spyder Editor
4
5 This is a script file to test required library for Python Workshop.
6 """
7 import numpy as np
8 import matplotlib
9 import pylab
10 import matplotlib.pyplot
11 import scipy.optimize as optimize
12 print('Library Testing Successful')
13
```

A red arrow points to the **Run** button (a green play icon) in the toolbar. A dark grey callout box with white text says: **Click the Run Button to Execute the code**.

The right sidebar contains a **Help** panel with the following text:

Usage

Here you can get help of any object by pressing **Ctrl+I** in front of it, either on the Editor or the Console.

Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in *Preferences > Help*.

New to Spyder? Read our [tutorial](#)

Below the help panel is the **IPython console** panel, which shows the output of the code execution:

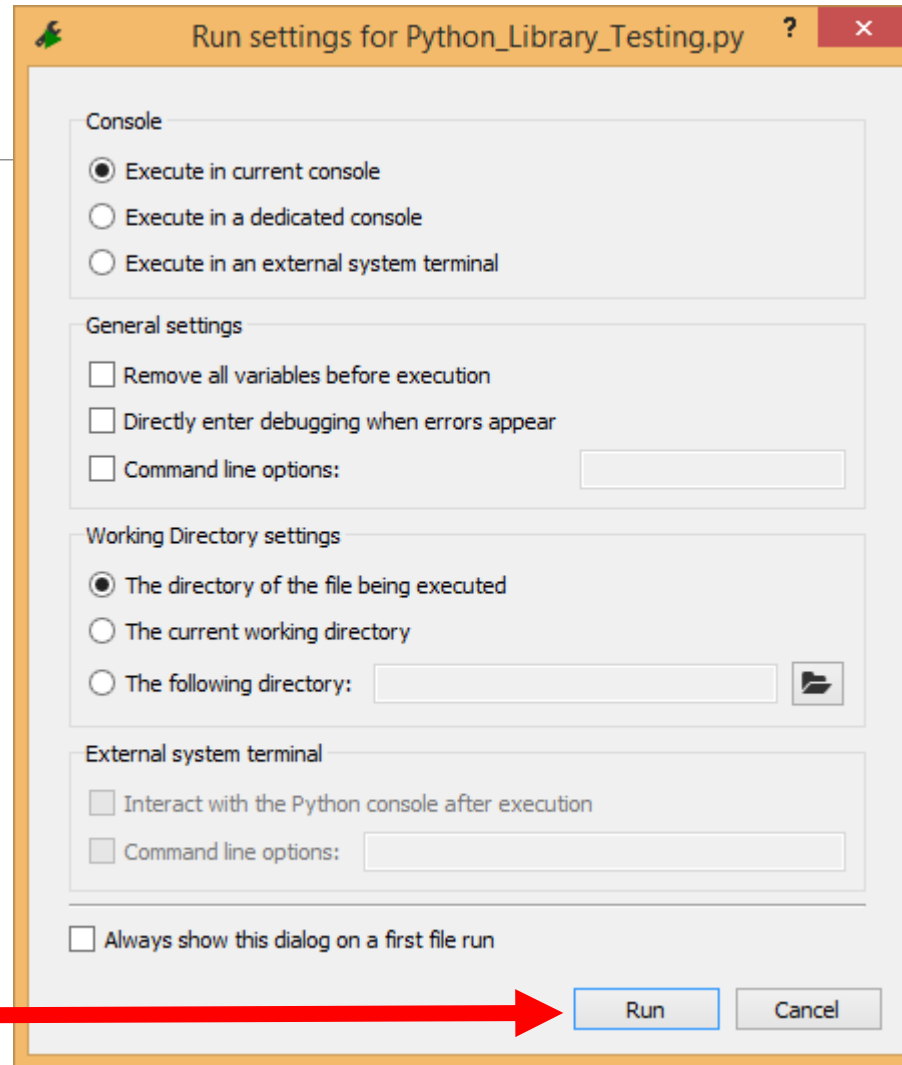
```
Python 3.7.1 (default, Dec 10 2018, 22:54:23) [MSC v.1915 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 7.2.0 -- An enhanced Interactive Python.

In [1]: |
```

The status bar at the bottom indicates: Permissions: RW, End-of-lines: CRLF, Encoding: UTF-8, Line: 2, Column: 4, Memory: 47 %.

Step-4 : Spyder IDE Window : Run “Python_Library_Testing.py” File



Click Run

Step-5 : Spyder IDE Window : Run “Python_Library_Testing.py” File

The screenshot displays the Spyder IDE interface. The main editor window on the left contains the following Python code:

```
1 #-*- coding: utf-8 -*-  
2 """  
3 Spyder Editor  
4  
5 This is a script file to test required library for Python Workshop.  
6 """  
7 import numpy as np  
8 import matplotlib  
9 import pylab  
10 import matplotlib.pyplot  
11 import scipy.optimize as optimize  
12 print('Library Testing Successfull')  
13
```

The right-hand side of the IDE is divided into several panels. At the top right is a 'Help' panel with a 'Usage' section. Below it are 'Variable explorer', 'File explorer', and 'Help' tabs. The 'IPython console' panel at the bottom right shows the execution output:

```
Python 3.7.1 (default, Dec 10 2018, 22:54:23) [MSC v.1915 64 bit (AMD64)]  
Type "copyright", "credits" or "license" for more information.  
  
IPython 7.2.0 -- An enhanced Interactive Python.  
  
In [1]: runfile('C:/Users/santosh.d/Documents/Python_Library_Testing.py', wdir='C:/  
Users/santosh.d/Documents')  
Library Testing Successfull  
  
In [2]:
```

A red arrow points from a text box on the left to the output 'Library Testing Successfull' in the IPython console. A dashed orange rectangle highlights the output text in the console.

Usage

Here you can get help of any object by pressing Ctrl+I in front of it, either on the Editor or the Console.

Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in *Preferences > Help*.

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Variable explorer File explorer Help

IPython console

Console 1/A

Python 3.7.1 (default, Dec 10 2018, 22:54:23) [MSC v.1915 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 7.2.0 -- An enhanced Interactive Python.

In [1]: runfile('C:/Users/santosh.d/Documents/Python_Library_Testing.py', wdir='C:/
Users/santosh.d/Documents')
Library Testing Successfull

In [2]:

IPython console History log

Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 1 Column: 1 Memory: 48 %

Check for results here
If it's successfully print the text
“Library Testing Successful” then
your installation is
complete

Errors ??

Send with snapshot to santosh.d@germi.res.in
