Lab Programs 1

Introduction to Python

Objectives

In this lab programs, you learn about

- How to install Python.
- How to install LiClipse
- How to configure Python in LiClipse
- How to create Python Project
- How to develop Python Program
- How to execute Python Program
- Comment in Python Program

Prerequisites

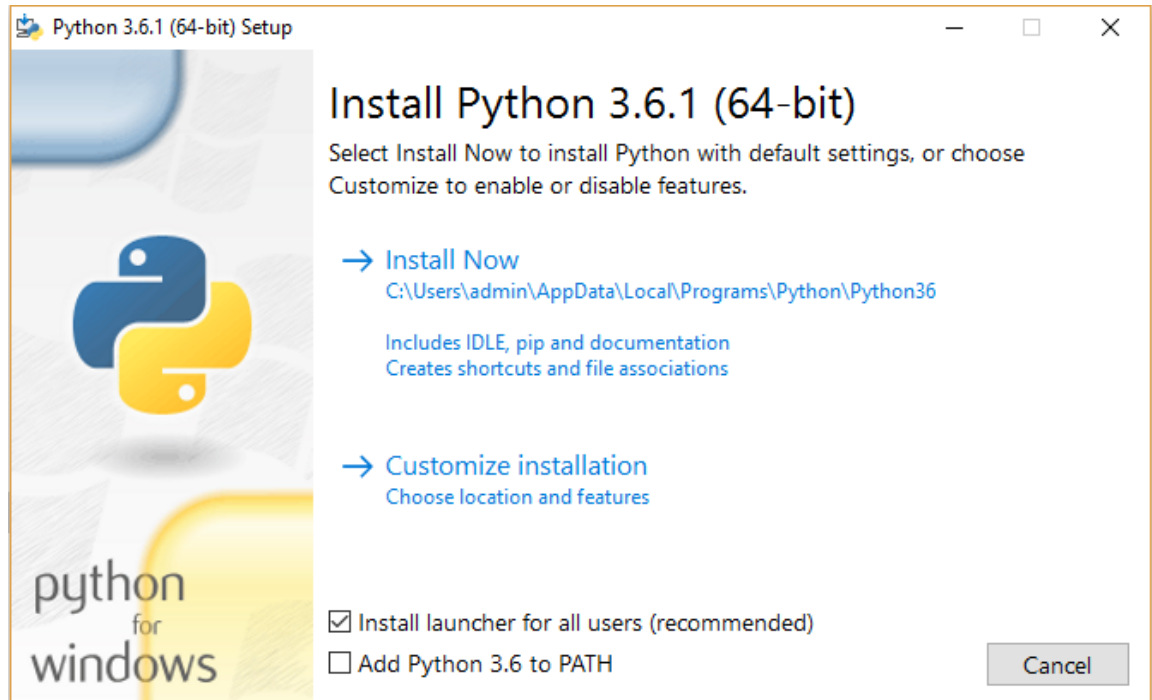Before working on this lab program, you must know

- How to install software in Windows.
- Knowledge on Editor.
- How to save files.

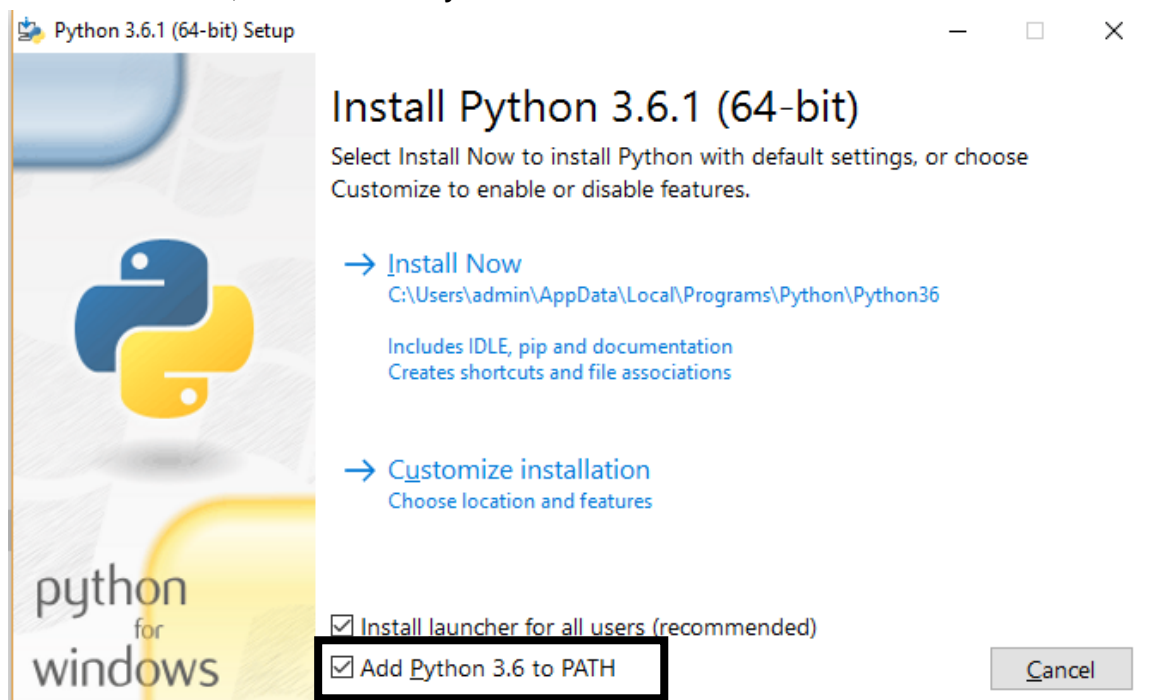**Estimated time to complete this lab programs: 150 minutes**

❖ **Lab Program 01**

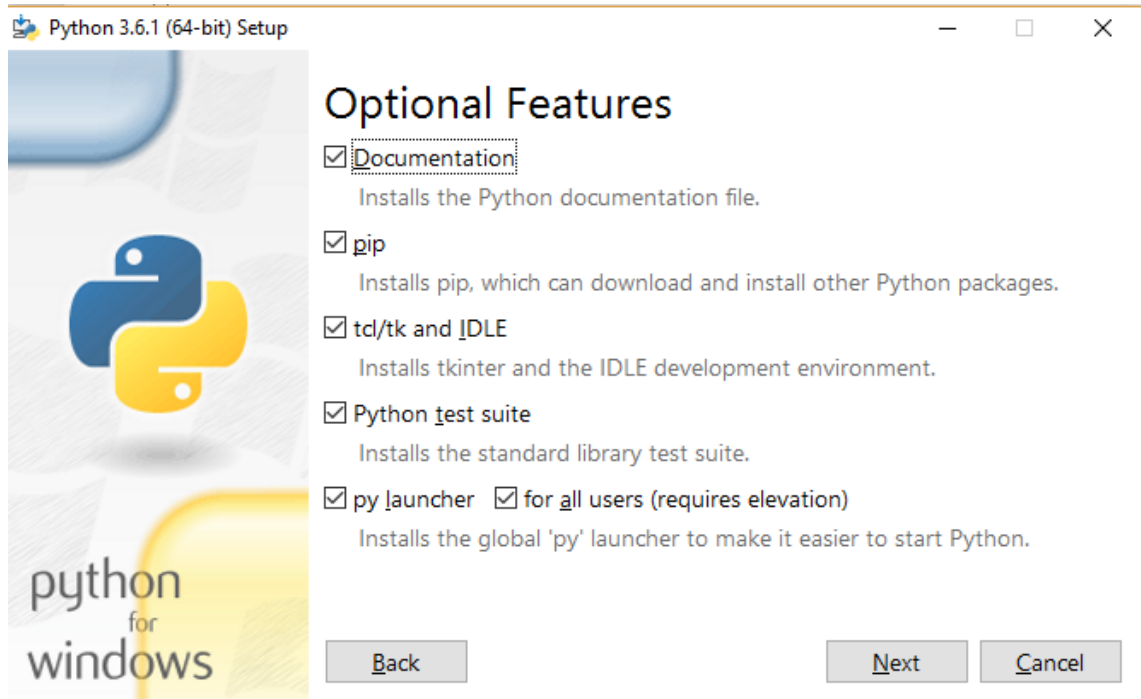**This Lab Activity explains how to install Python in your computer.**

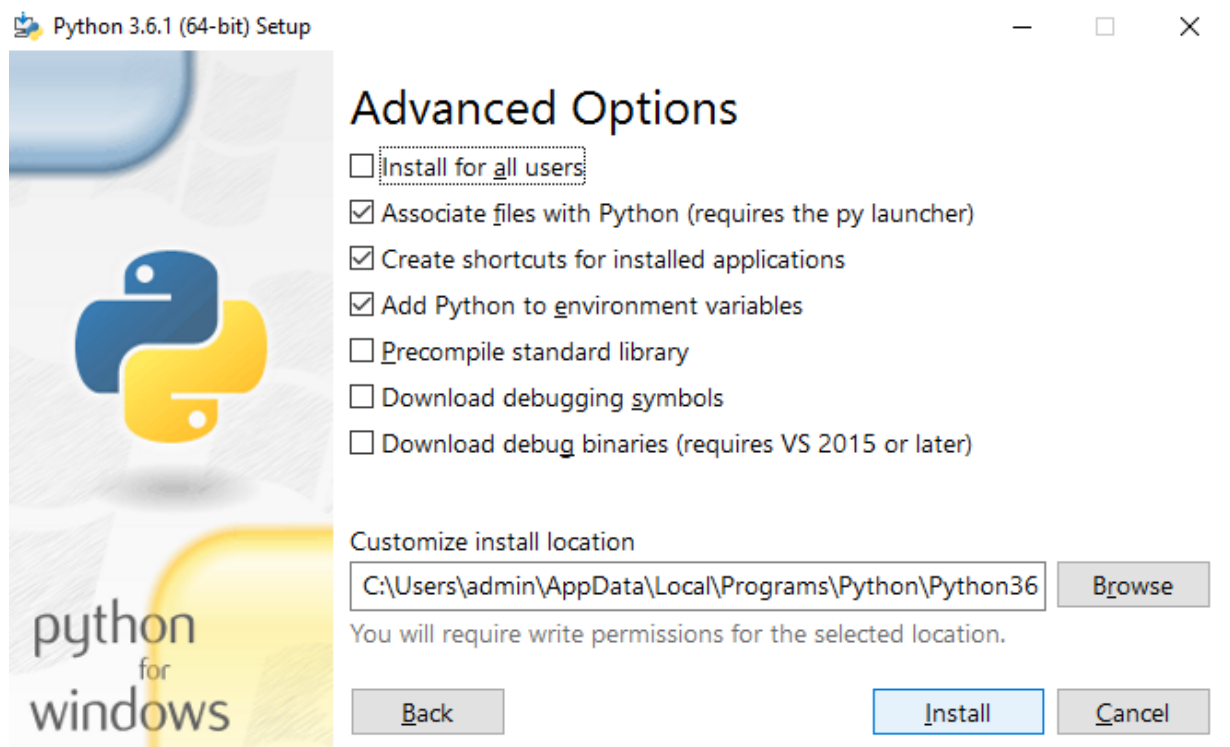1. **Double click** the **python-3.6.1-amd64.exe**. This action brings the below screen.

2. In the above screen, **Check** the **Add Python 3.6 to PATH** checkbox like below.

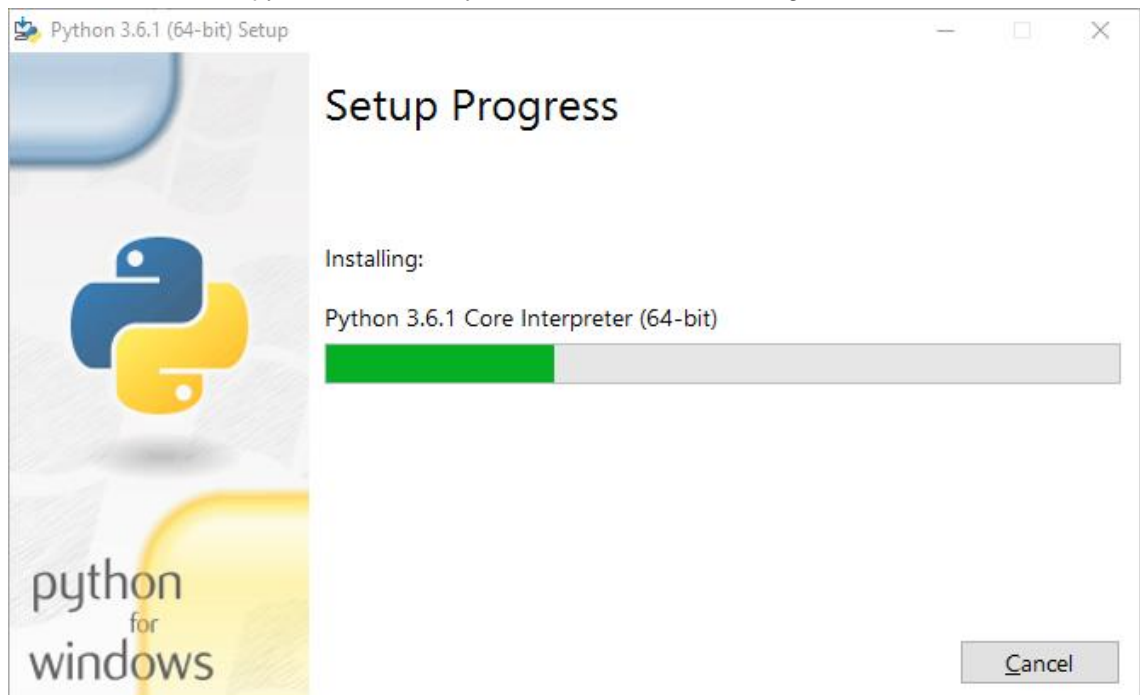3. In the above screen, **Click** on **Custom Installation**. This action brings the below screen.

4.   In the above screen, **Click** on **Next**. This action brings the below screen

5.   In the above screen, **Check** the below Checkboxes
    a. **Install for all users**
    b. **Precompile standard library**
    c. **Download debugging symbols**
6.   In the above screen, click on the **Browse button**, and select **c:\Python36**
      Note: if the folder is not available, **create Python36** folder in **C:**.
7.   The final screen should like below
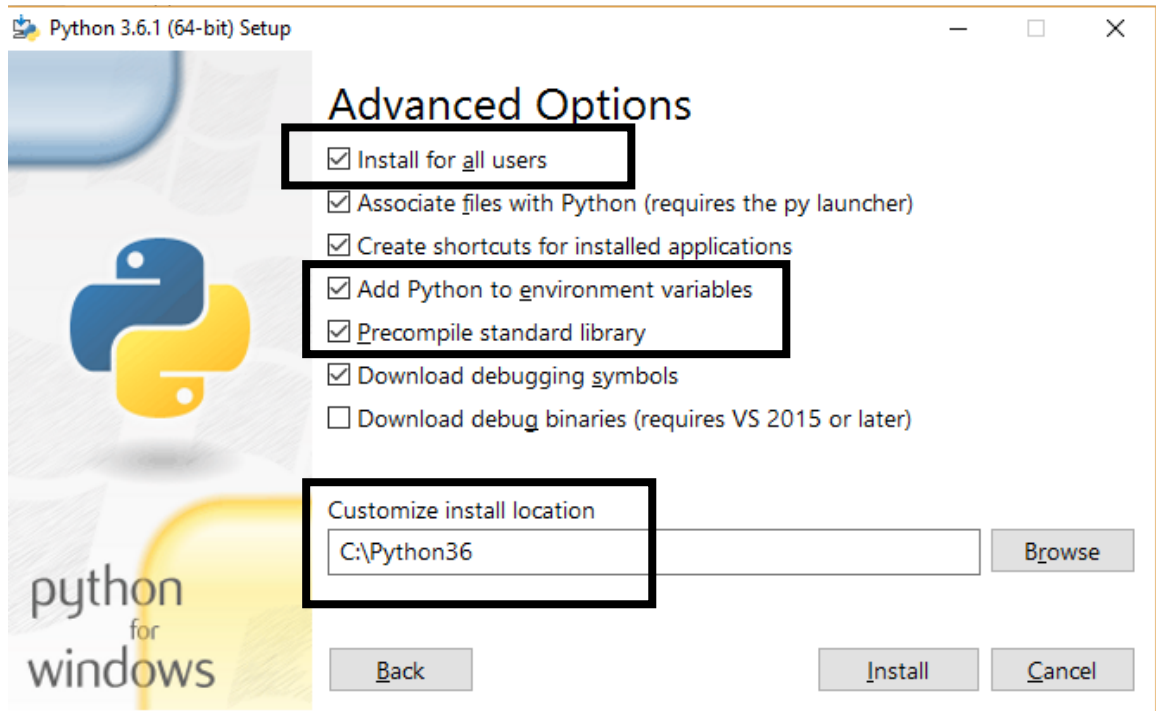
8.   In the above screen, **click** on **Install button**.

9.   This action install the python software in your machine. While installing the screen looks like below.

10.   After the successful installation, the screen looks like below
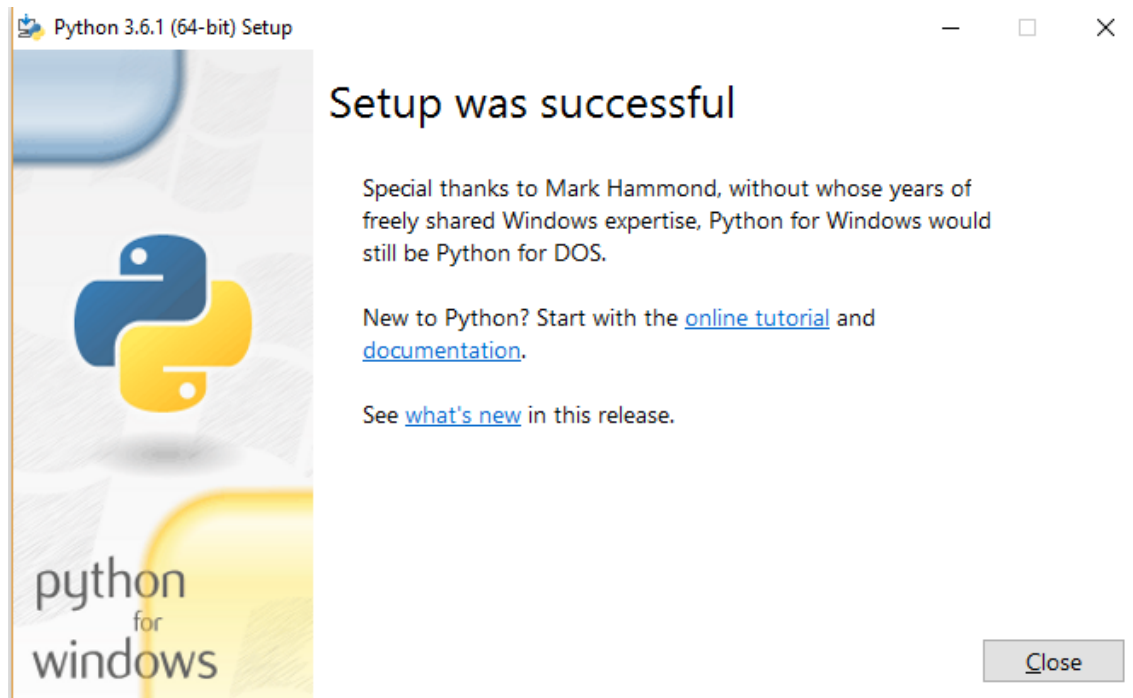
11.   **Click** on **Close button**. Now, Python 3.6 has been successfully installed.
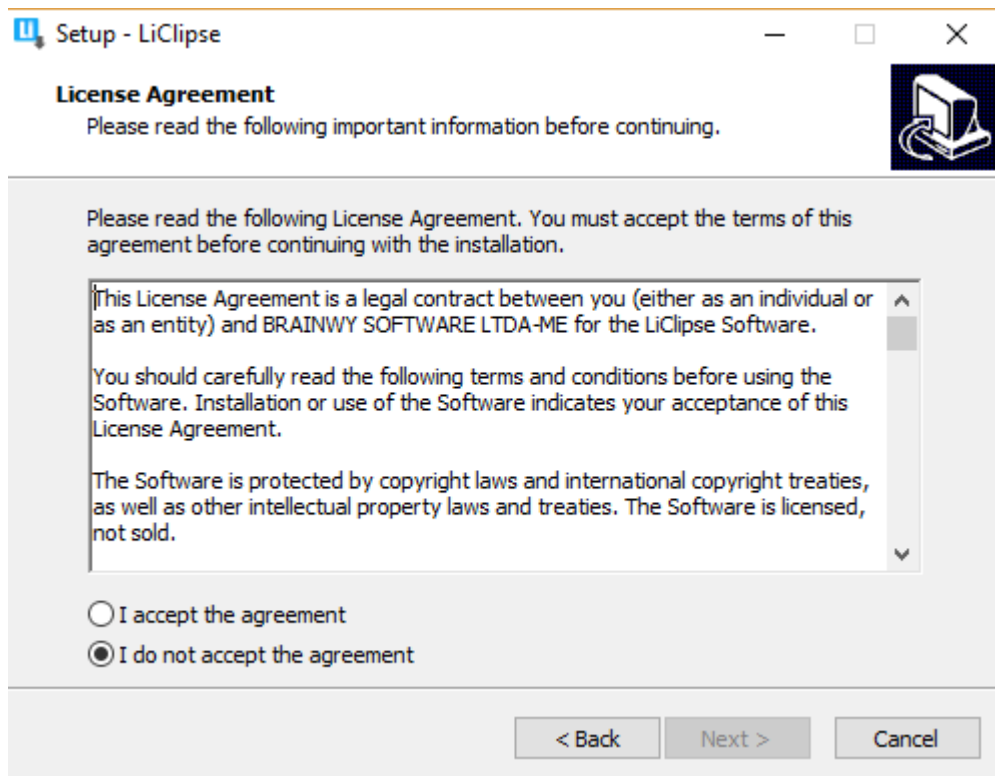
Program Output

What you learnt from this program?

❖ Lab Program 02

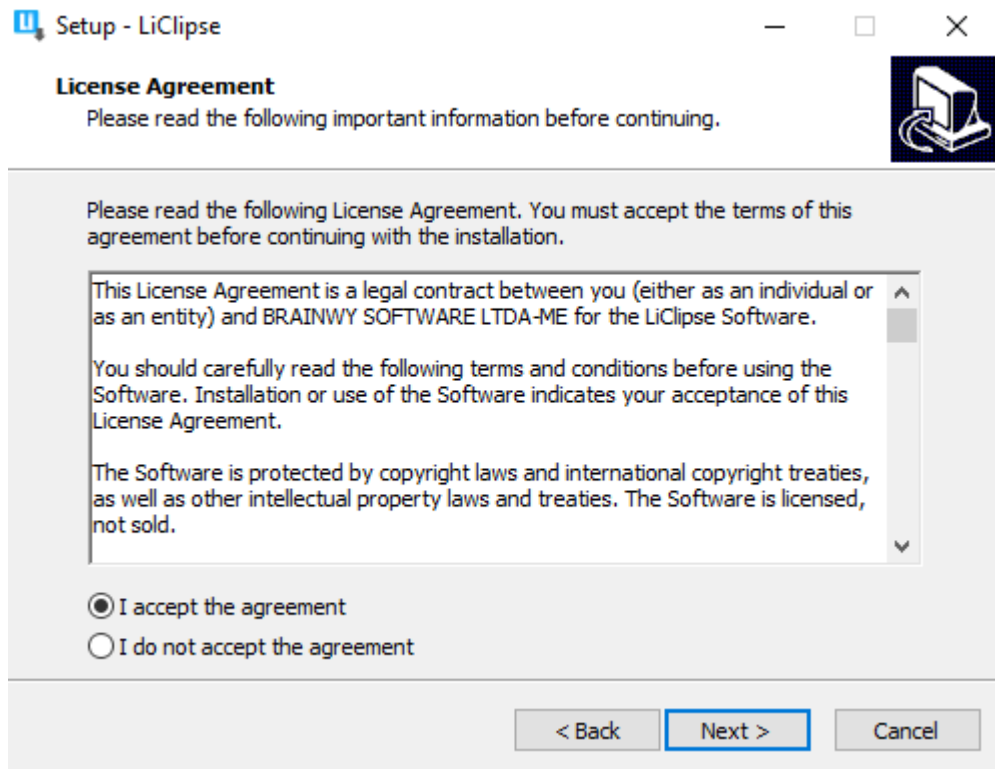**This Lab Activity explains how to install LiClipse IDE in your computer.**

1.   **Double click** the **liclipse_4.0.0_win32.x86_64.exe**. This action brings the below screen.
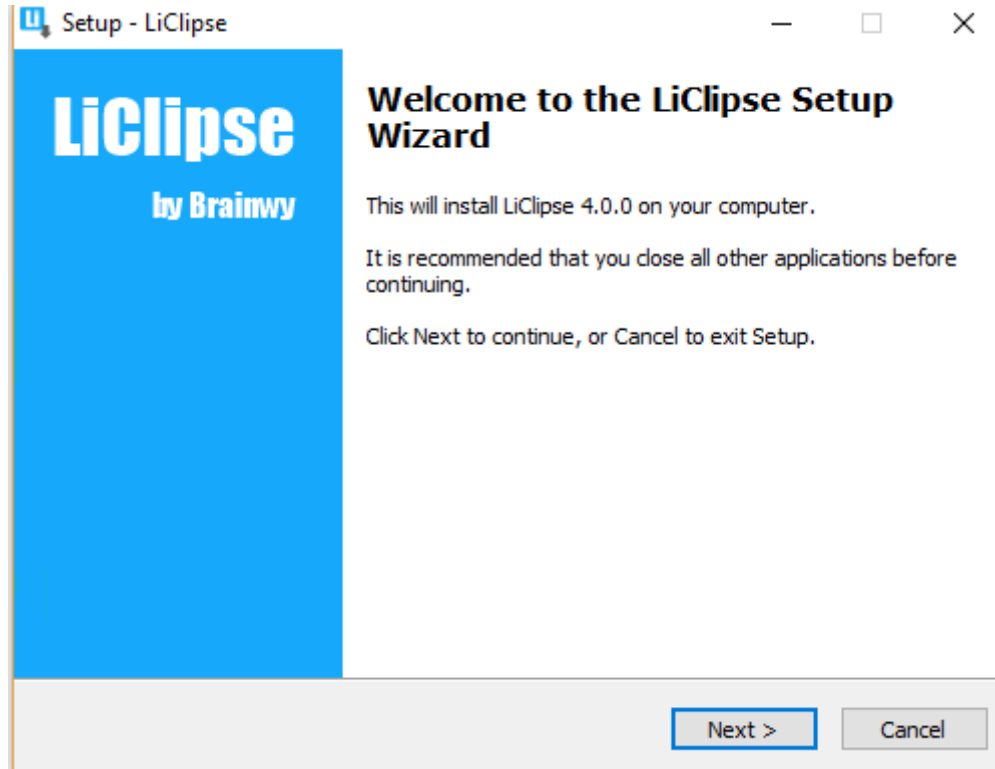
2.   Click on the Next Button in the above screen. This action brings the below window.

3.   **Check** the **I accept the agreement** in the above screen. This action enables Next button like below.

4.   **Click** on the **Next** button. This action brings the below screen.
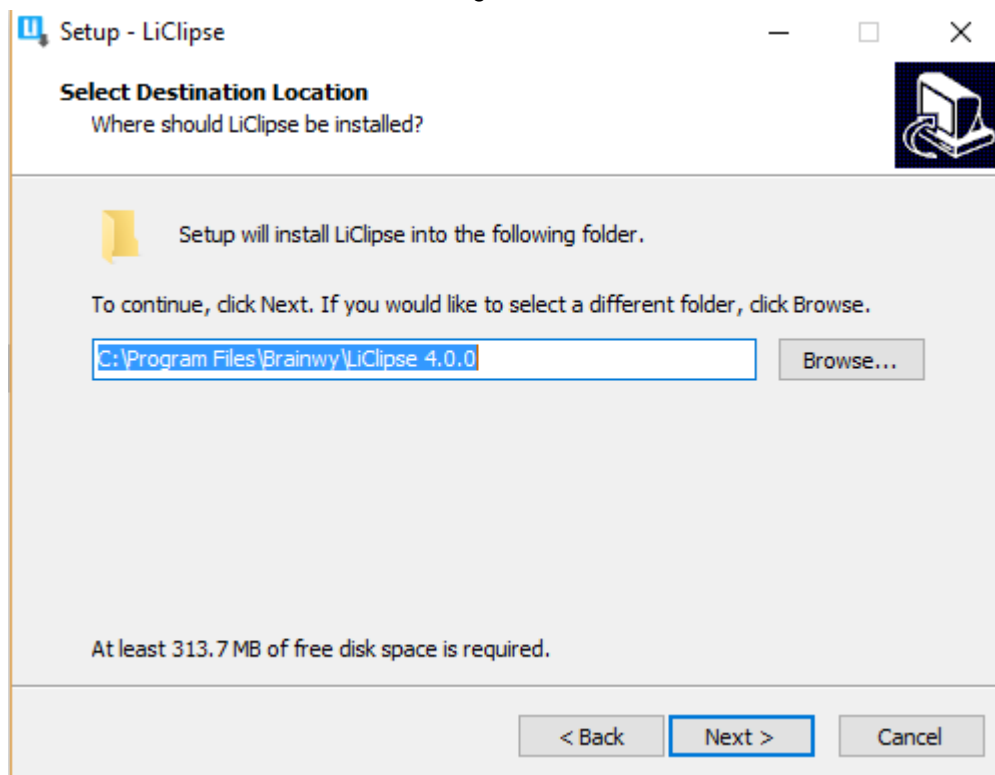
5.   In the above screen, click on the **Browse button**, and select **c:\LiClipse4**
      Note: if the folder is not available, **create LiClipse4** folder in **C:**.
      The screen should like below
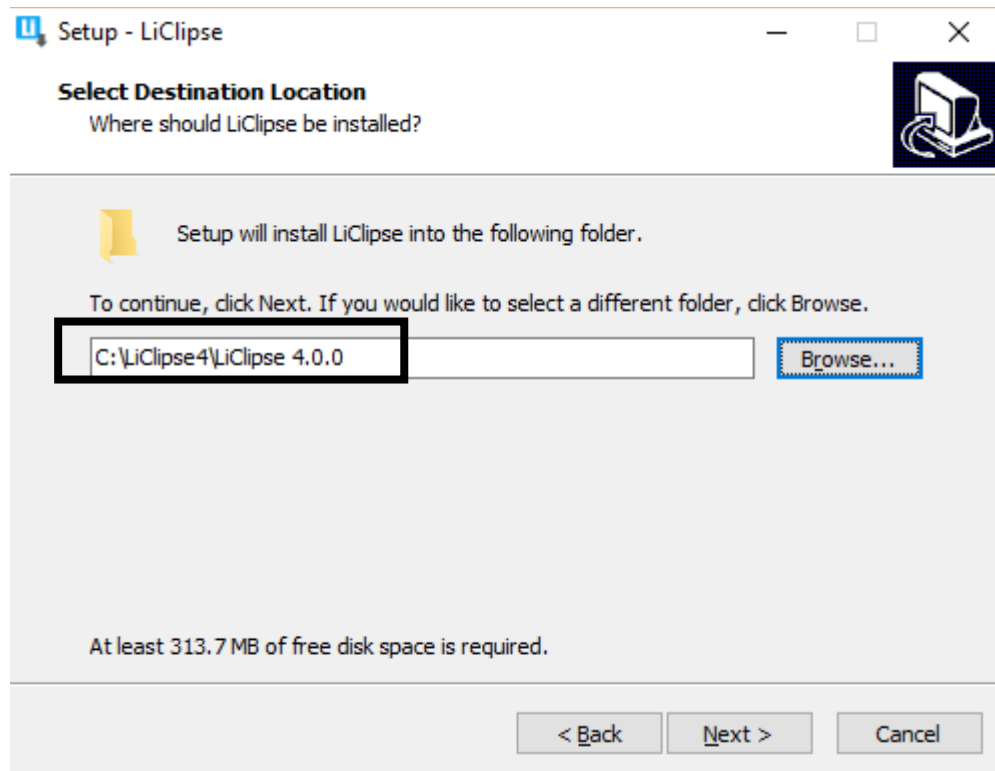
6.   **Click** on the **Next button** in the above screen. This action brings the below screen.
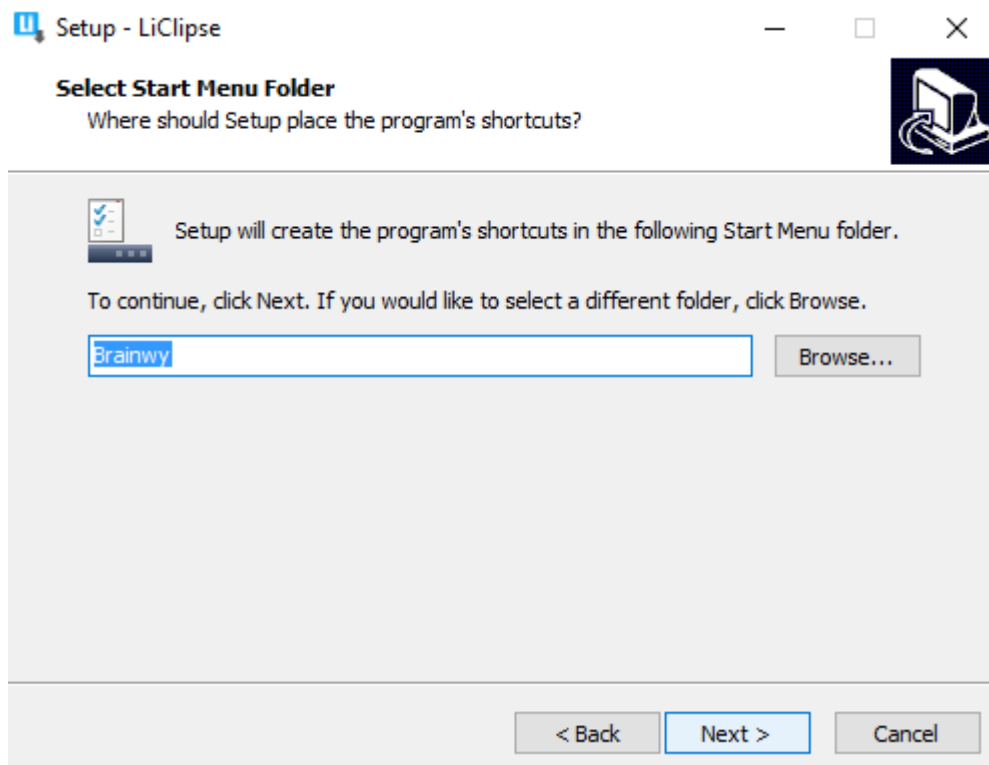
7.   **Click** on the **Next button** in the above screen. This action brings the below screen
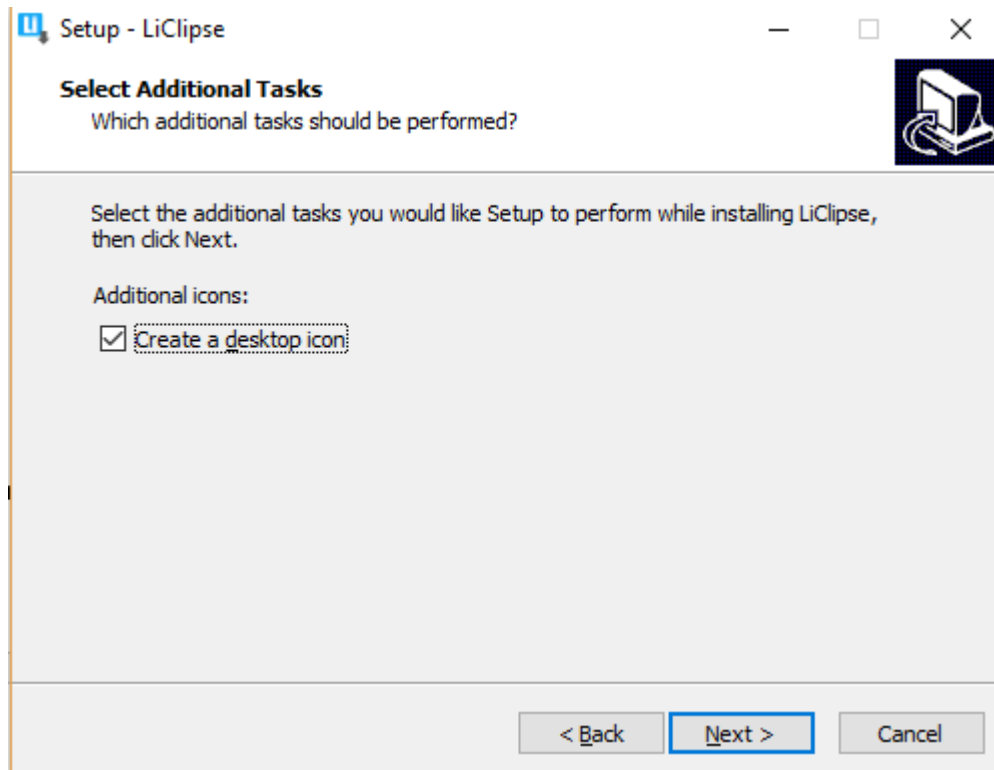
8. **Click** on the **Next button** in the above screen. This action brings the below screen
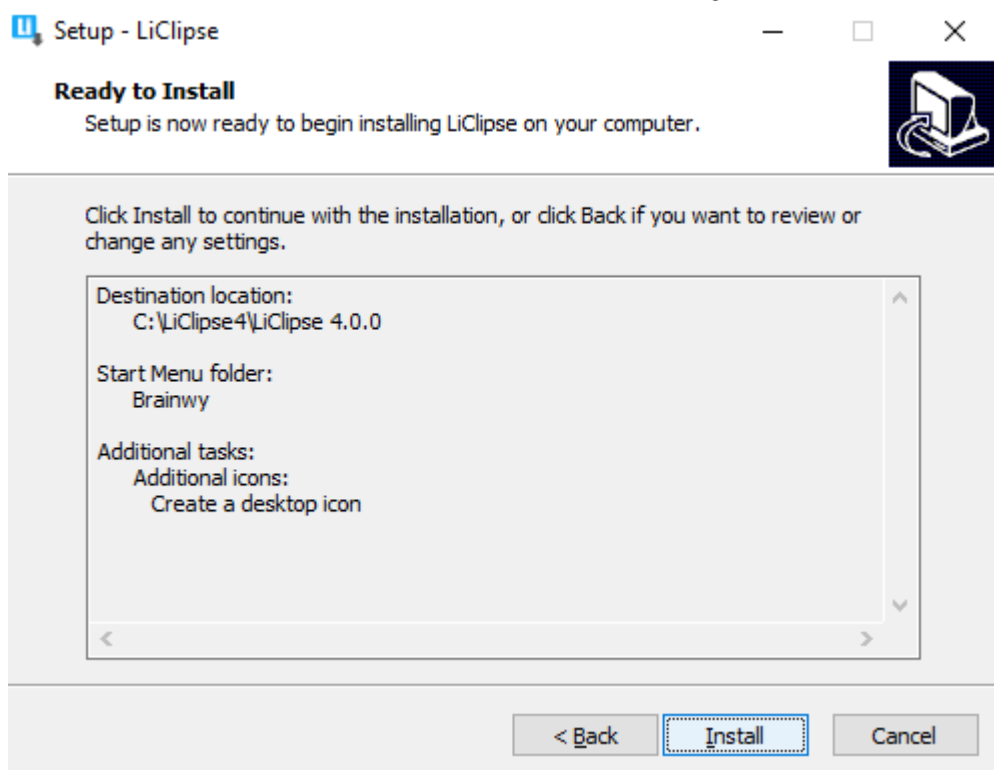
9. **Click** on the **Install button** in the above screen. This action installs the LiClipse software.
    While installing the below screen appears
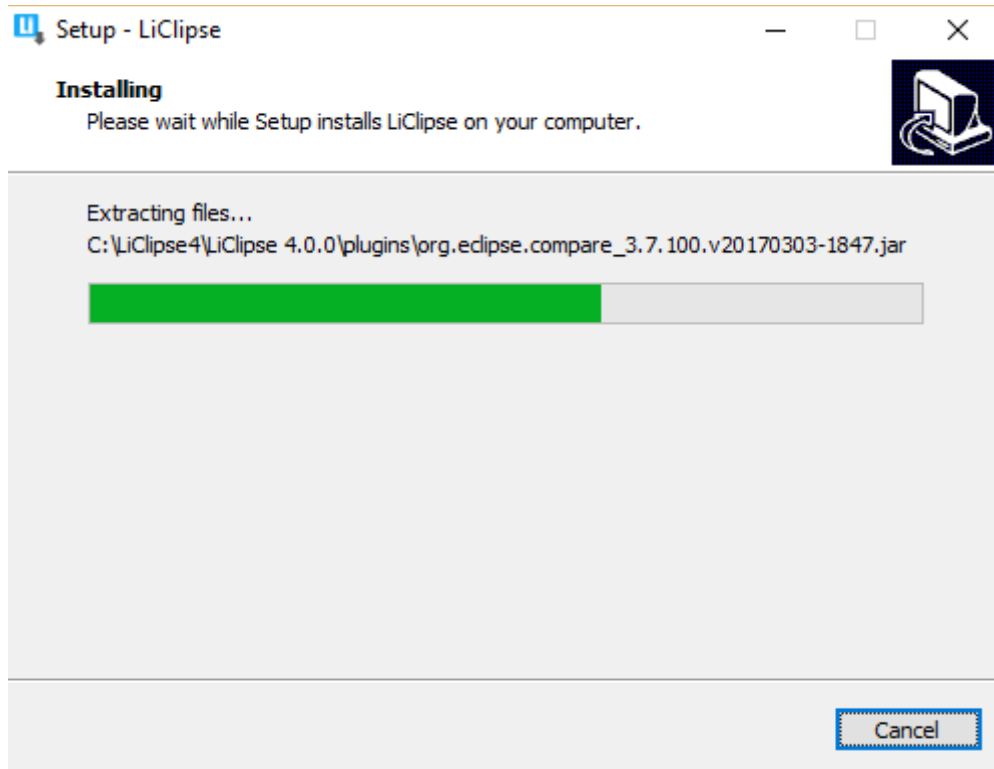
10. After successful installation the below screen appears.
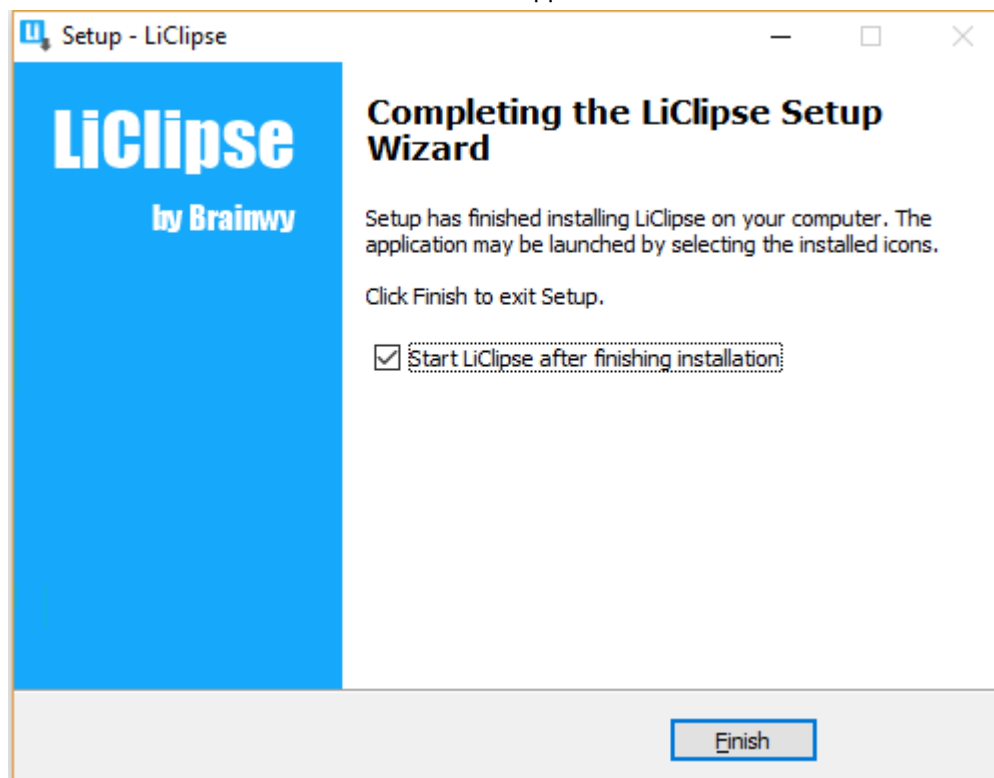
Program Output

What you learnt from this program?

❖ **Lab Program 03**

This Lab Activity explains how to Python Project using LiClipse.

1.   Open the LiClipse. This action brings the below screen. In the workspace, Type E:\WisenCoursesV2\<Your-Name>.

Eclipse Launcher   ✕

Select a directory as workspace

LiClipse uses the workspace directory to store its preferences and development artifacts.

Workspace: E:\WisenCoursesV2\<Your-Name>   ⌄   Browse...

☐ Use this as the default and do not ask again

▸ **Recent Workspaces**

Launch   Cancel
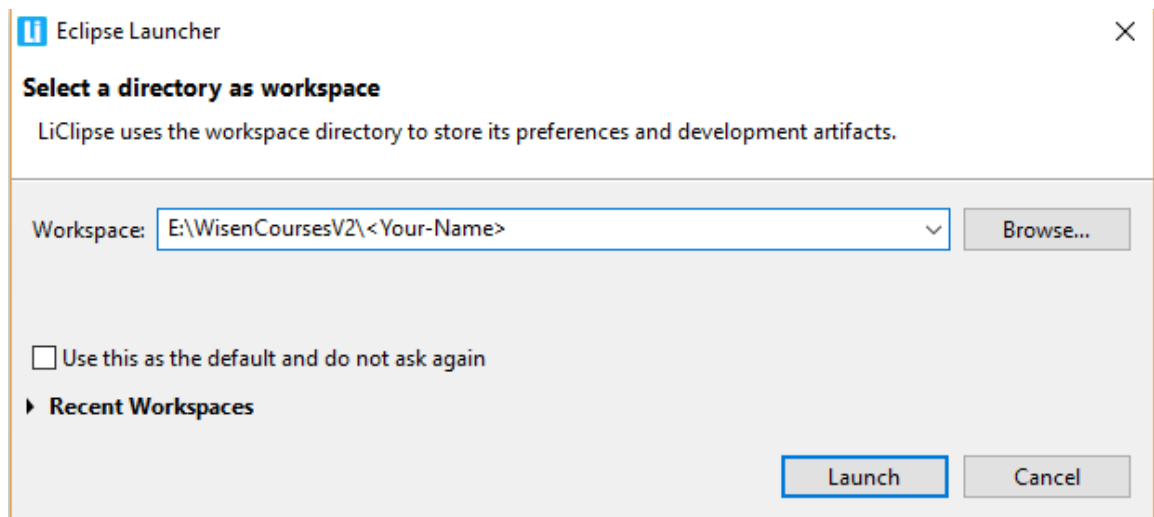
Note: From Onwards WisenProject means <Your Name>

Eclipse Launcher   ✕

Select a directory as workspace

LiClipse uses the workspace directory to store its preferences and development artifacts.

Workspace: E:\WisenCoursesV2\WisenPython   ⌄   Browse...

☐ Use this as the default and do not ask again

▸ **Recent Workspaces**

Launch   Cancel
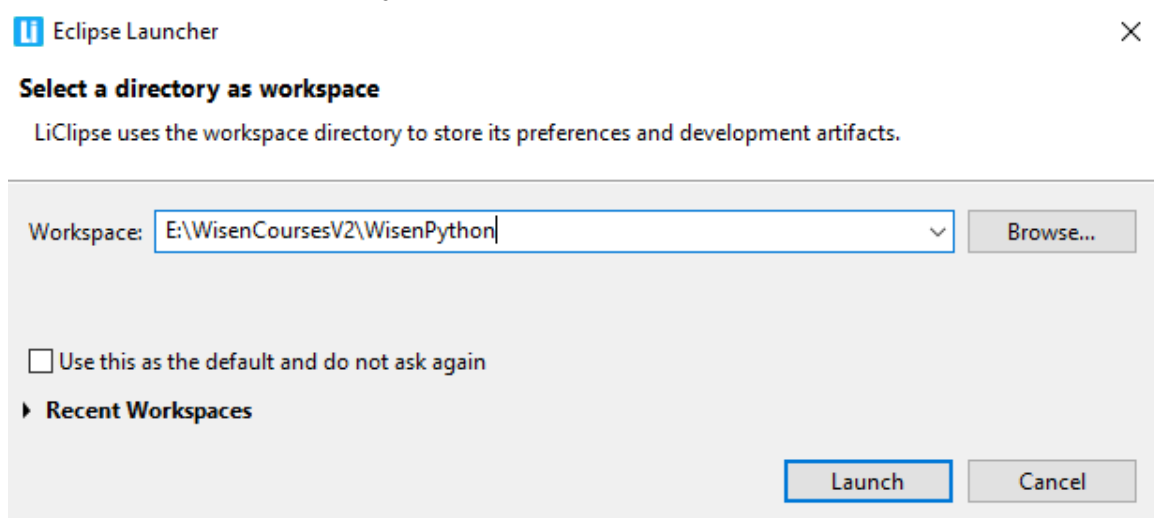
2.   In the above screen, click on **Launch Button**. This action brings the below screen.
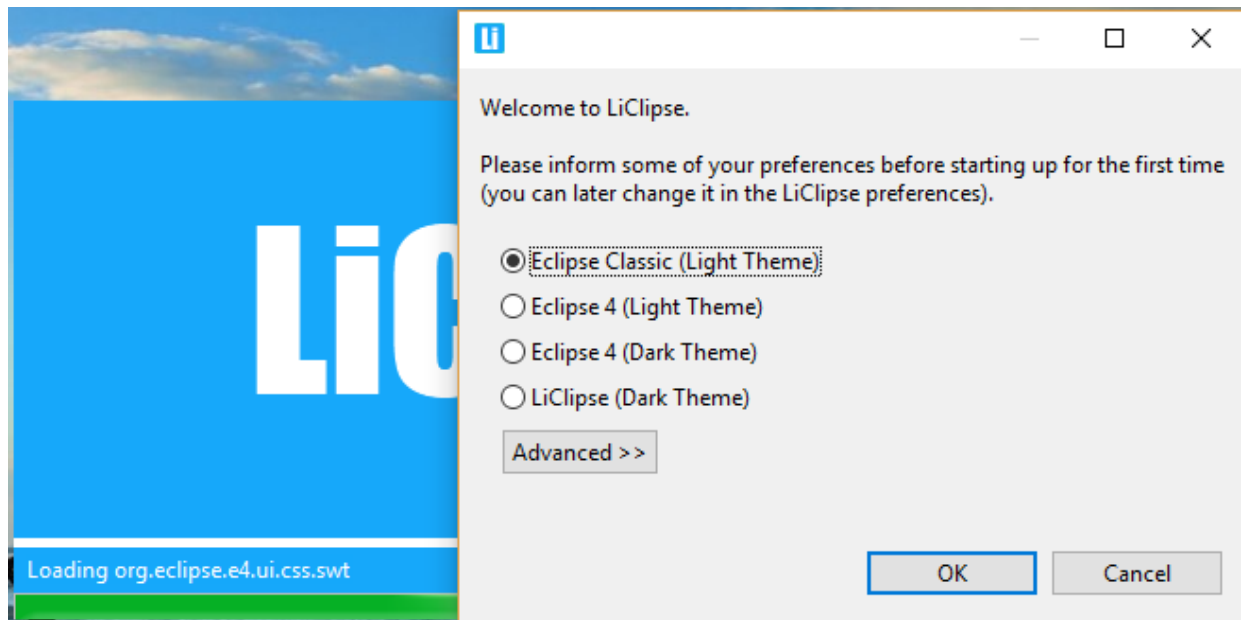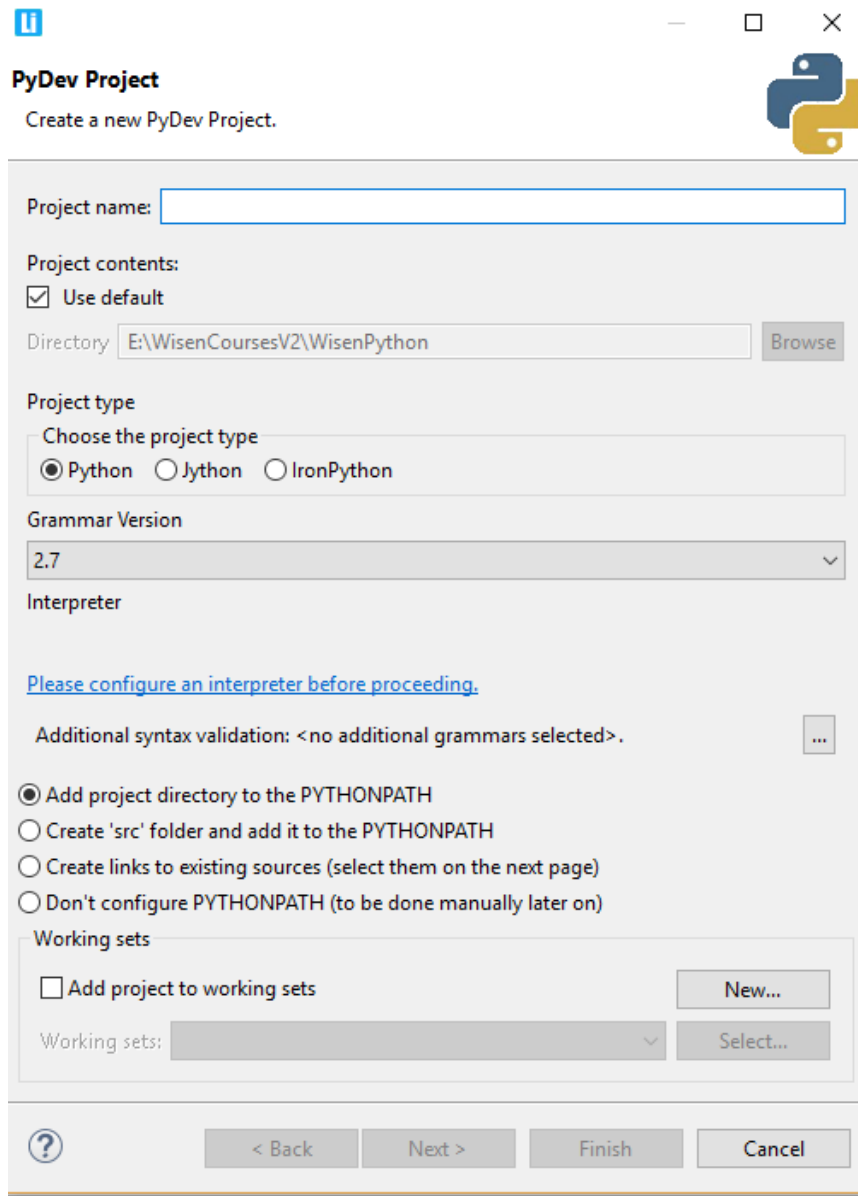
3.   In the above screen, **Check Eclipse Classic** and click on **Ok**. This action brings the below screen.
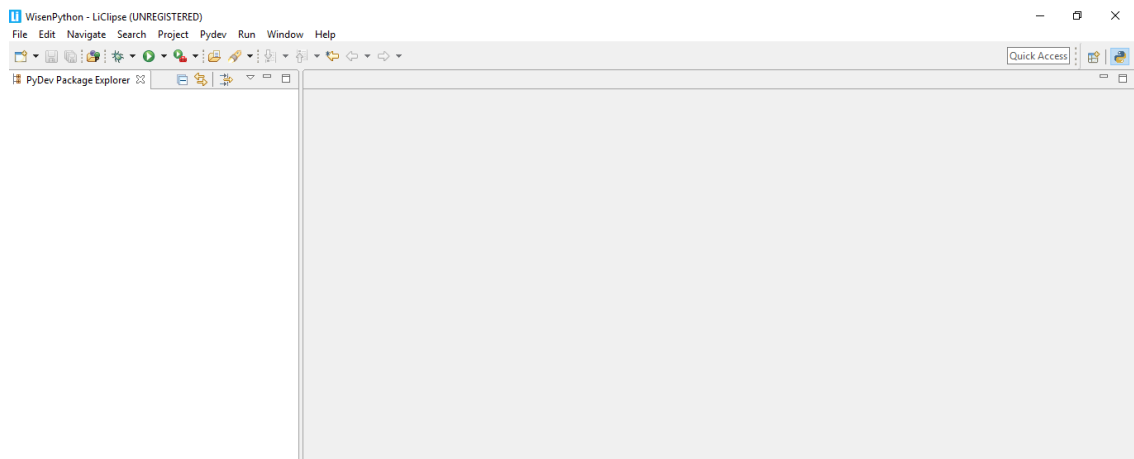
4.   In the above screen, click on **File -> New -> PyDev Project** like below
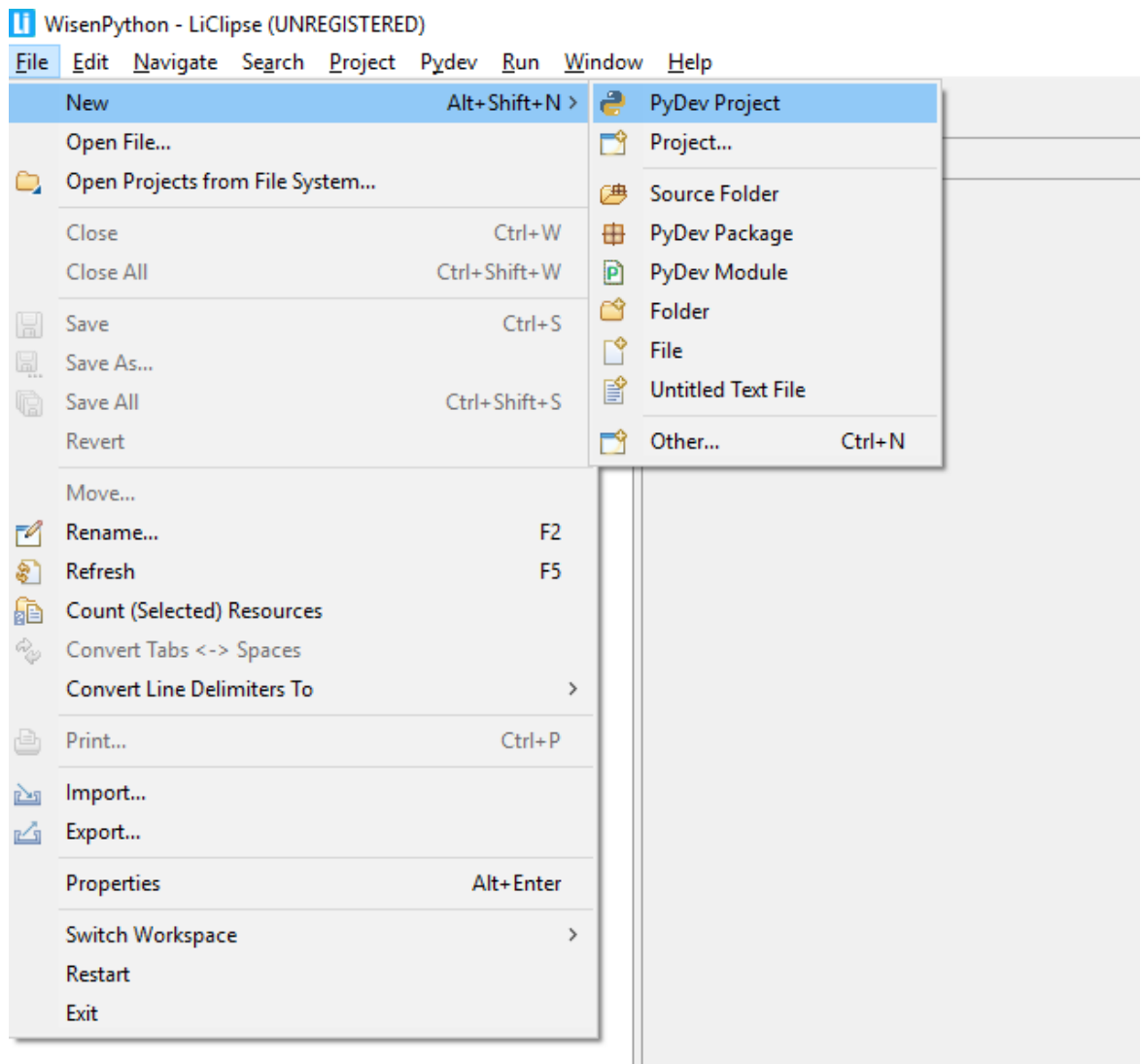
5.   After **clicking the PyDev Project**, the below screen appears.

6.　　In above screen, **Project Name field**, type **<YourName>Project**.

PyDev Project
Create a new PyDev Project.

Project name: `<Your-Name-Project`

Project contents:
☑ Use default

Directory   E:\WisenCoursesV2\WisenPython   Browse

Project type
Choose the project type
◉ Python   ○ Jython   ○ IronPython
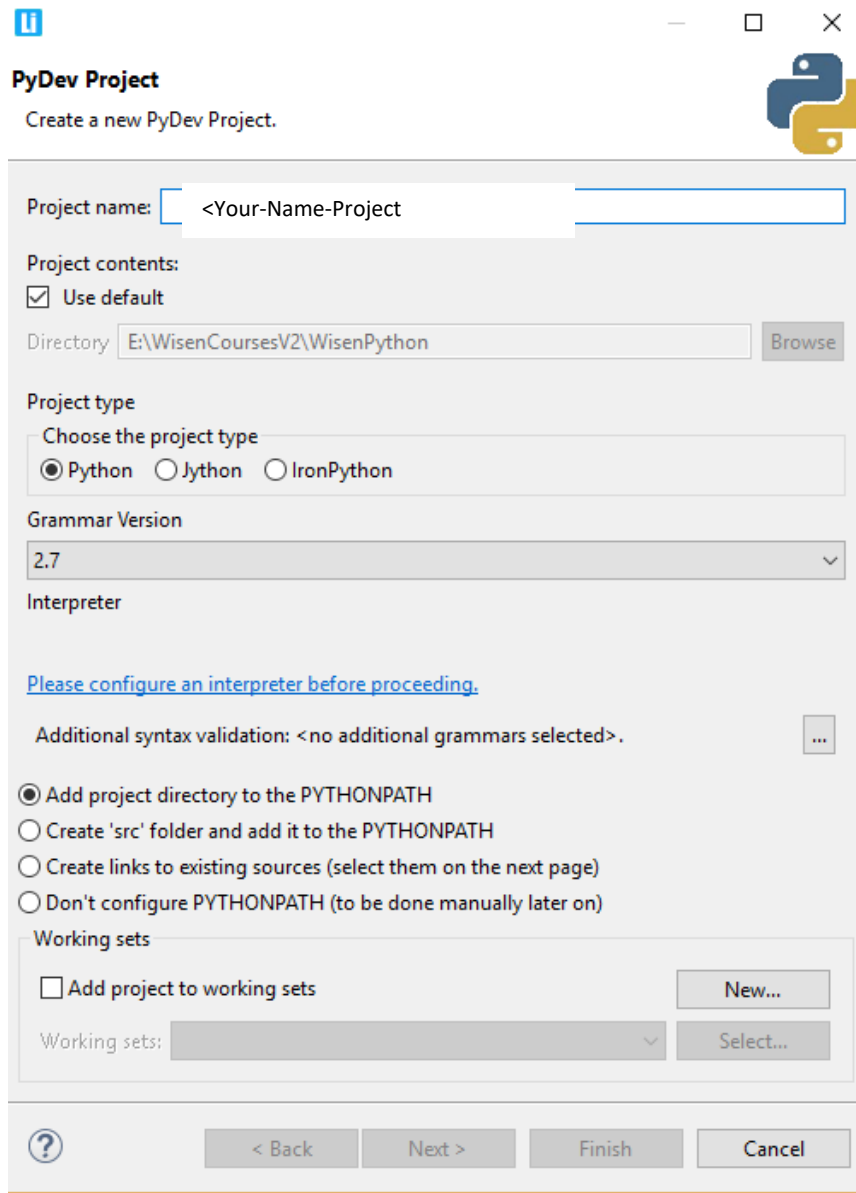
Grammar Version
2.7

Interpreter

[Please configure an interpreter before proceeding.](#)

Additional syntax validation: <no additional grammars selected>.   ...

◉ Add project directory to the PYTHONPATH
○ Create 'src' folder and add it to the PYTHONPATH
○ Create links to existing sources (select them on the next page)
○ Don't configure PYTHONPATH (to be done manually later on)
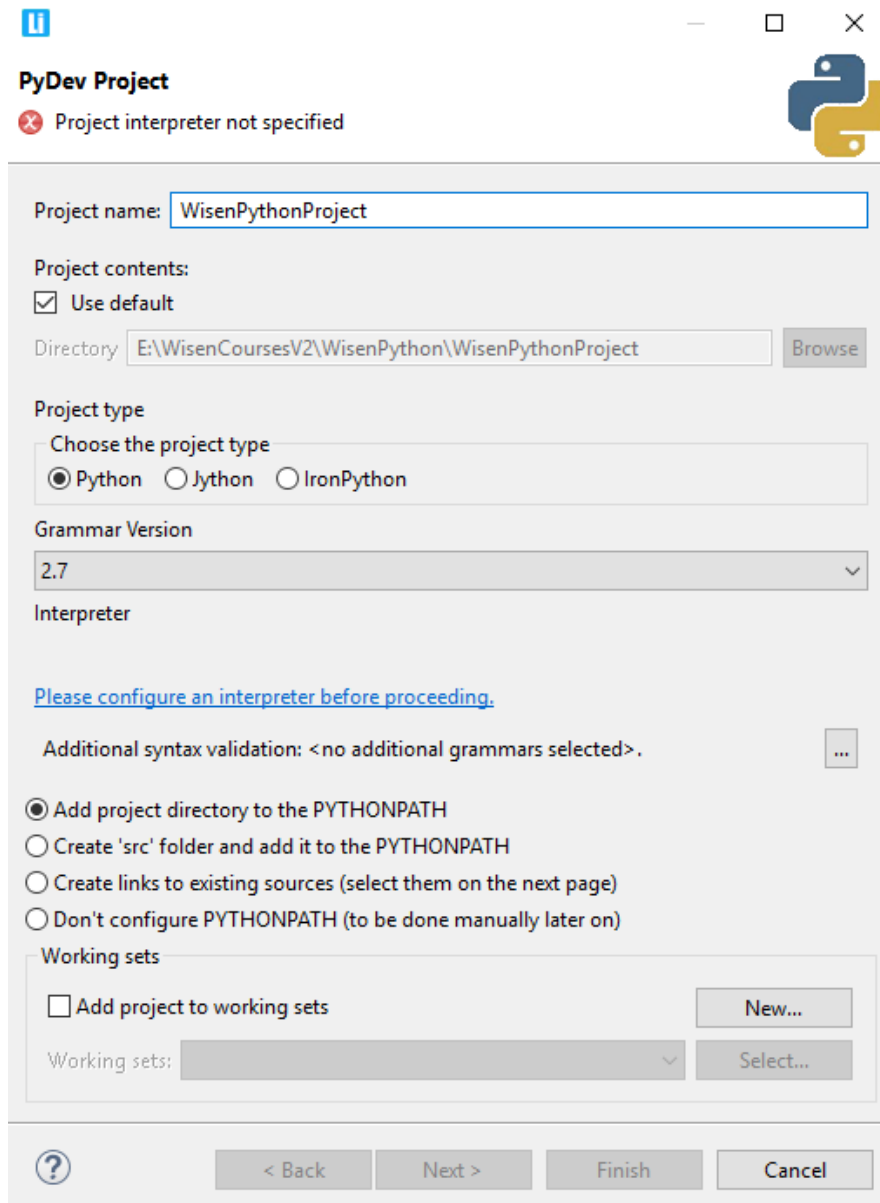
Working sets
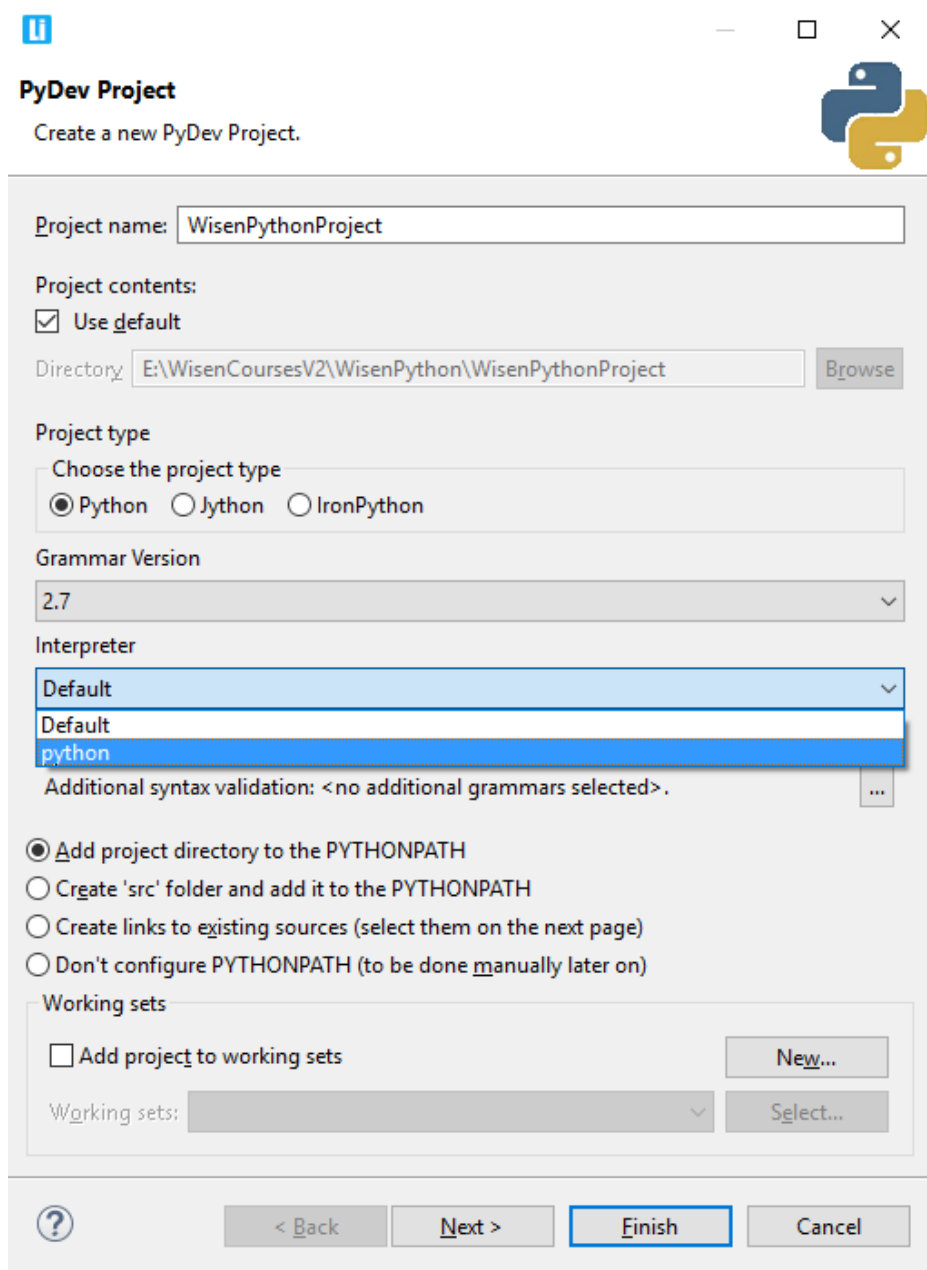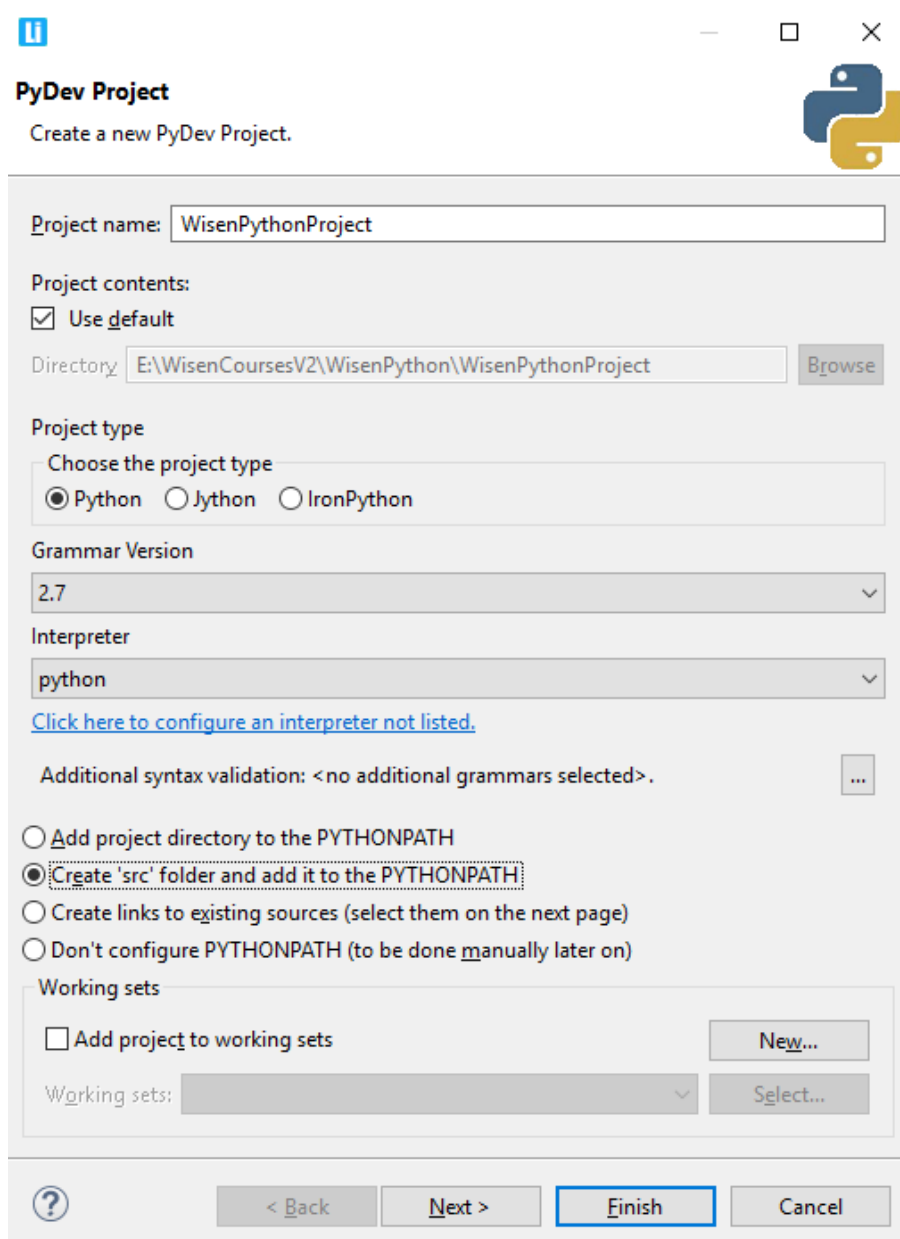☐ Add project to working sets   New...

Working sets: Select...

?
< Back   Next >   Finish   Cancel

Note: from Now onwards **WisenPythonProject** refers to **<Your-Name-Project>**

7.   The screen should looks like below

8.   In the above screen, Please configure an interpreter before proceeding link. This action brings the below screen.
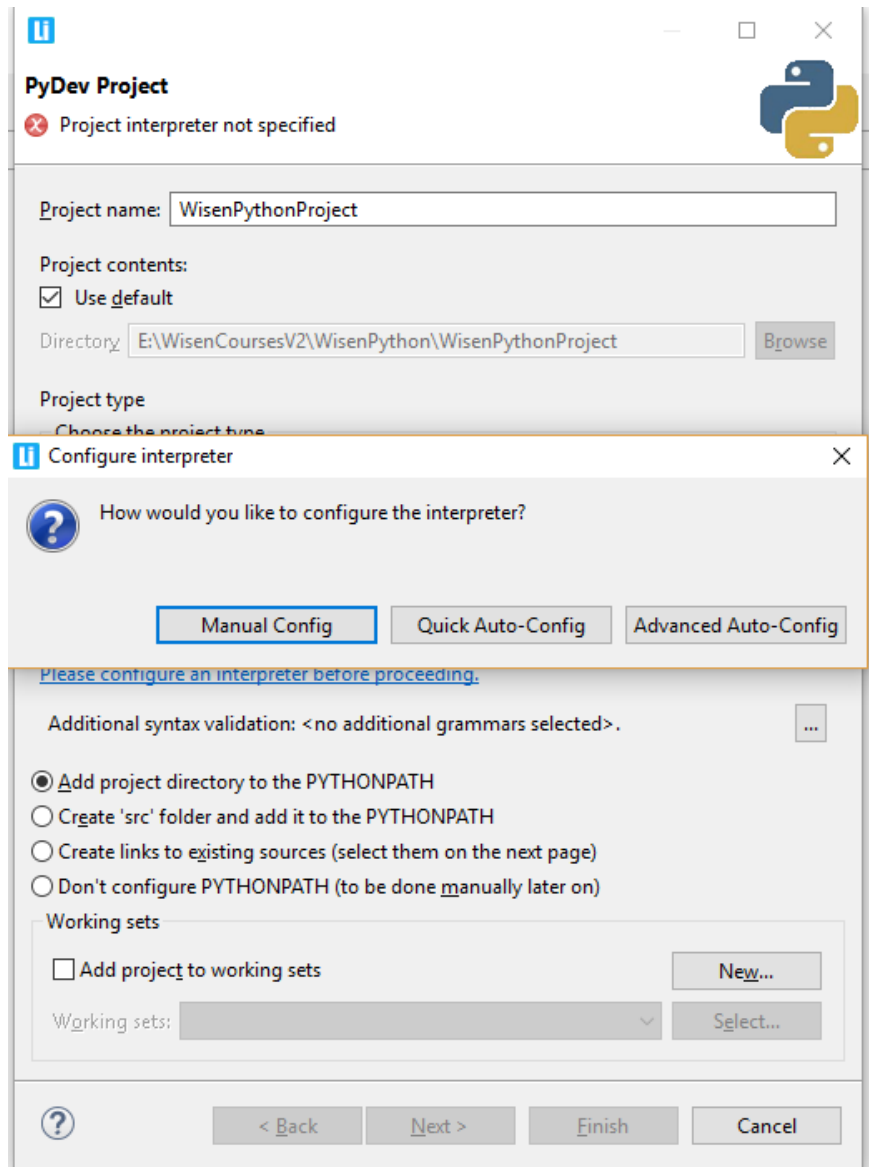
9.   In the above screen, **click** on **Quick Auto Config** button. This action brings the below screen.

10.   In the above screen, **select python** in **Interpreter dropdownlist** and also **Check Create 'src' folder and add it to the PYTHONPATH** radio button like below:

11.   Click on **Next Button**. This action brings the below screen

12.   Click on **Next Button**. This action brings the below screen

13.   Click on **Arrow Button before to WisenPythonProject**. This action brings the below screen
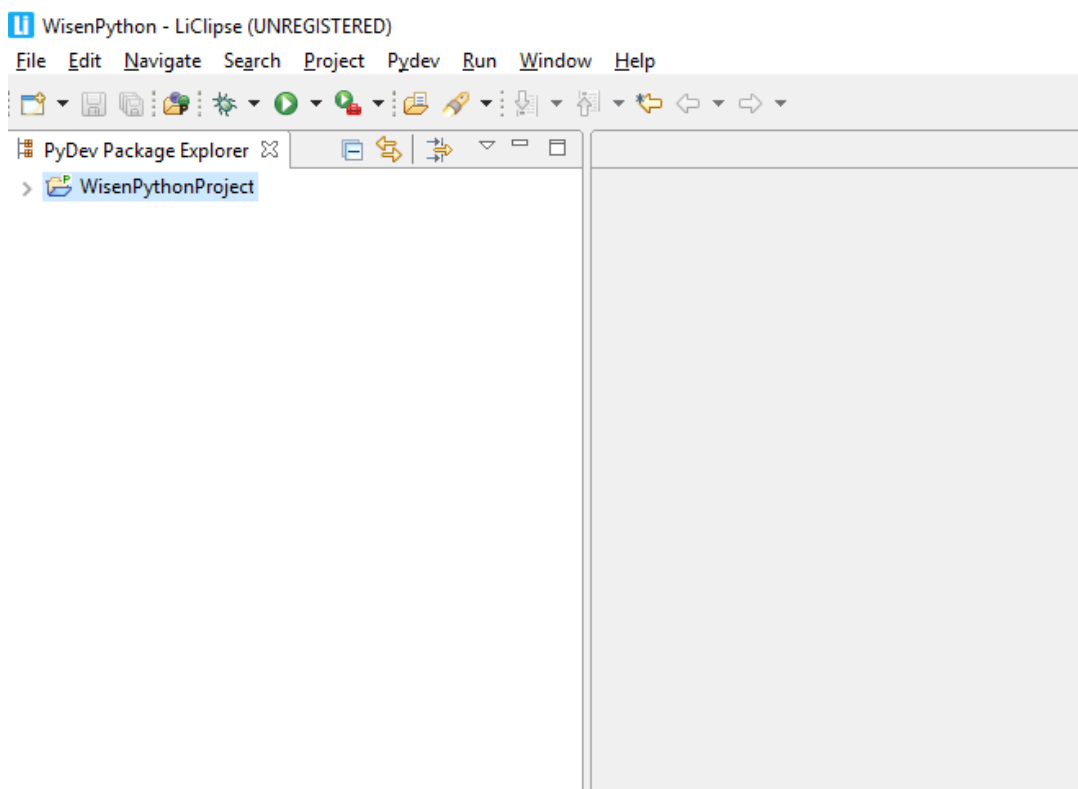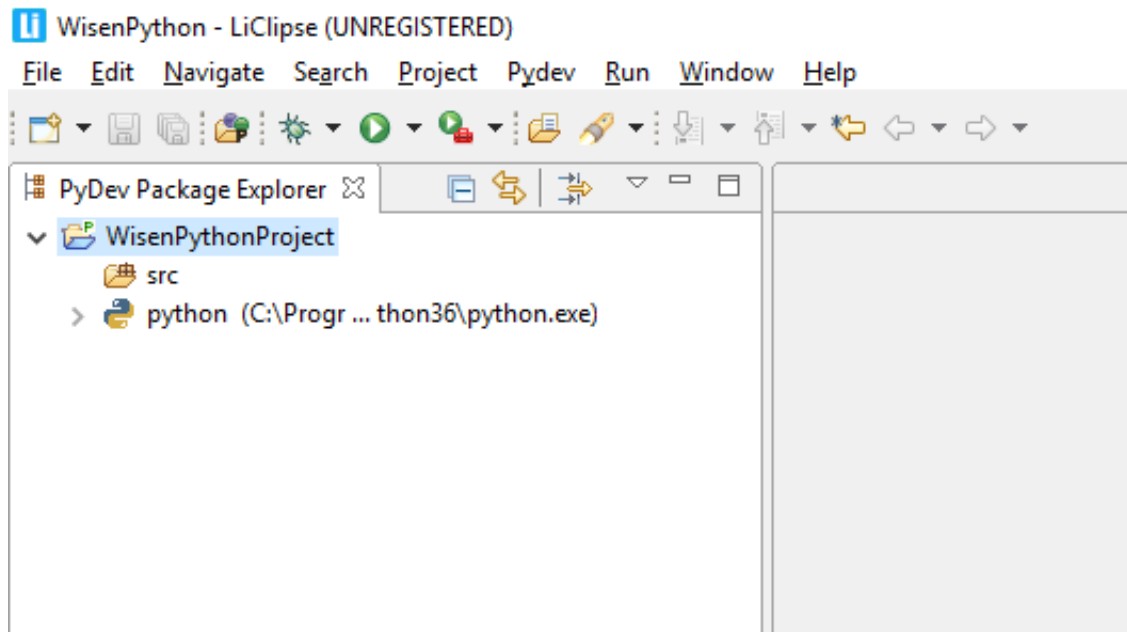
Li WisenPython - LiClipse (UNREGISTERED)

File Edit Navigate Search Project Pydev Run Window Help

PyDev Package Explorer ⊠

∨ 🗁 WisenPythonProject
      📁 src
      > 🐍 python (C:\Progr ... thon36\python.exe)

Program Output

What you learnt from this program?