

Module 3: Introduction To Selenium Python API



Module Objectives

At the end of this module, you will be able to:

- Explain why Selenium with Python
- Describe configuring Selenium WebDriver in eclipse using PyDev
- Illustrate how to perform cross browser testing using Selenium Python API



Topic List

Brief On Selenium Python

Configure WebDriver in Eclipse using PyDev

Cross Browser Testing using Selenium Python API

Topic List

Brief On Selenium Python

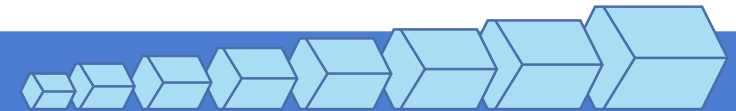
Configure WebDriver in Eclipse using PyDev

Cross Browser Testing using Selenium Python API

Brief On Selenium Python (1)

Why Selenium with Python ?

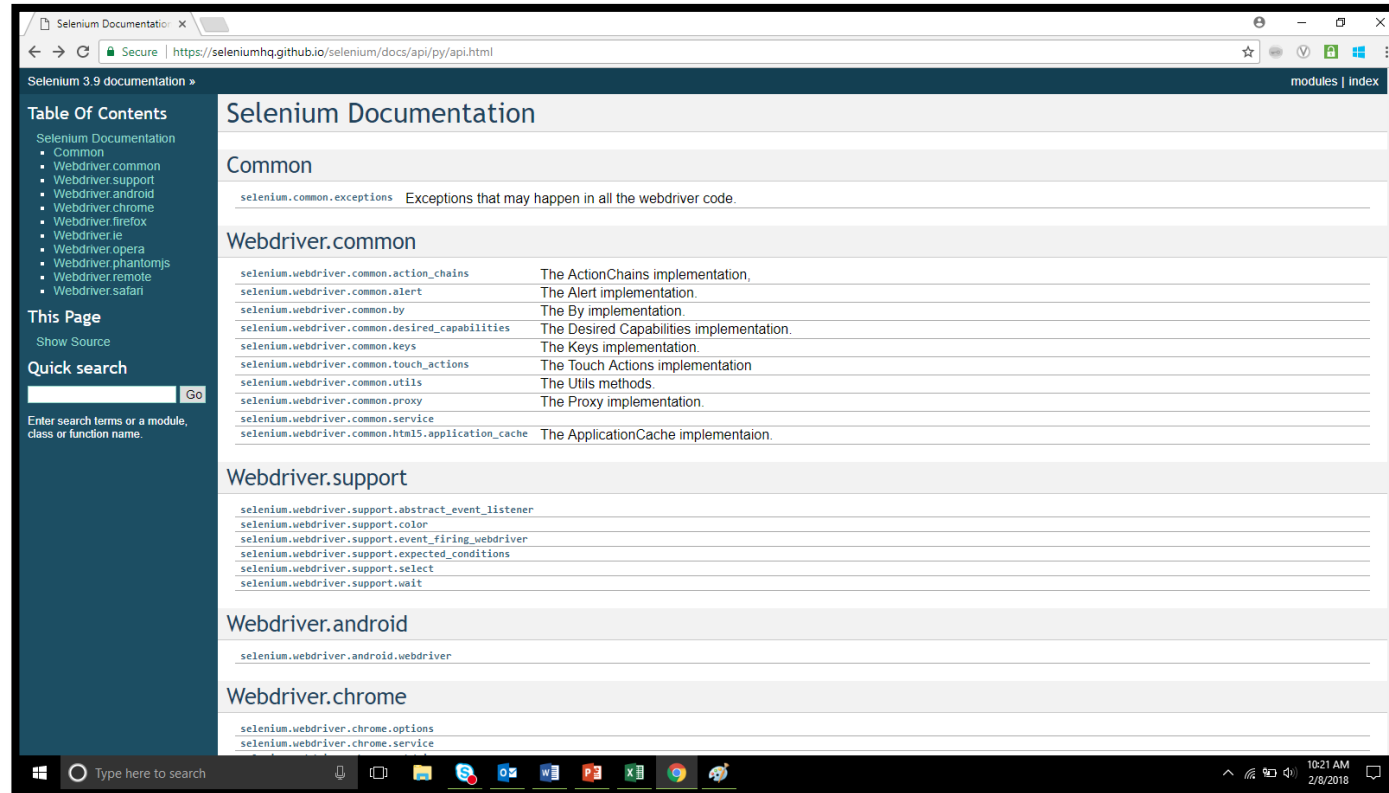
- Selenium Python bindings provides a simple, convenient API to write functional/acceptance tests
- Selenium Python can access all functionalities of WebDriver
- Scripting using Python is more compact and simpler
- Python programs provides results quicker than Java
- Python uses Indentation instead of braces for code blocks
- Data typing in Python is Dynamic



Brief On Selenium Python (2)

Selenium Python API

- Selenium Python API is used for testing web applications across different browsers
- Selenium scripts using Web Driver API can be implemented in different programming languages like java, C#, python, ruby, java script



Topic List

Brief On Selenium Python

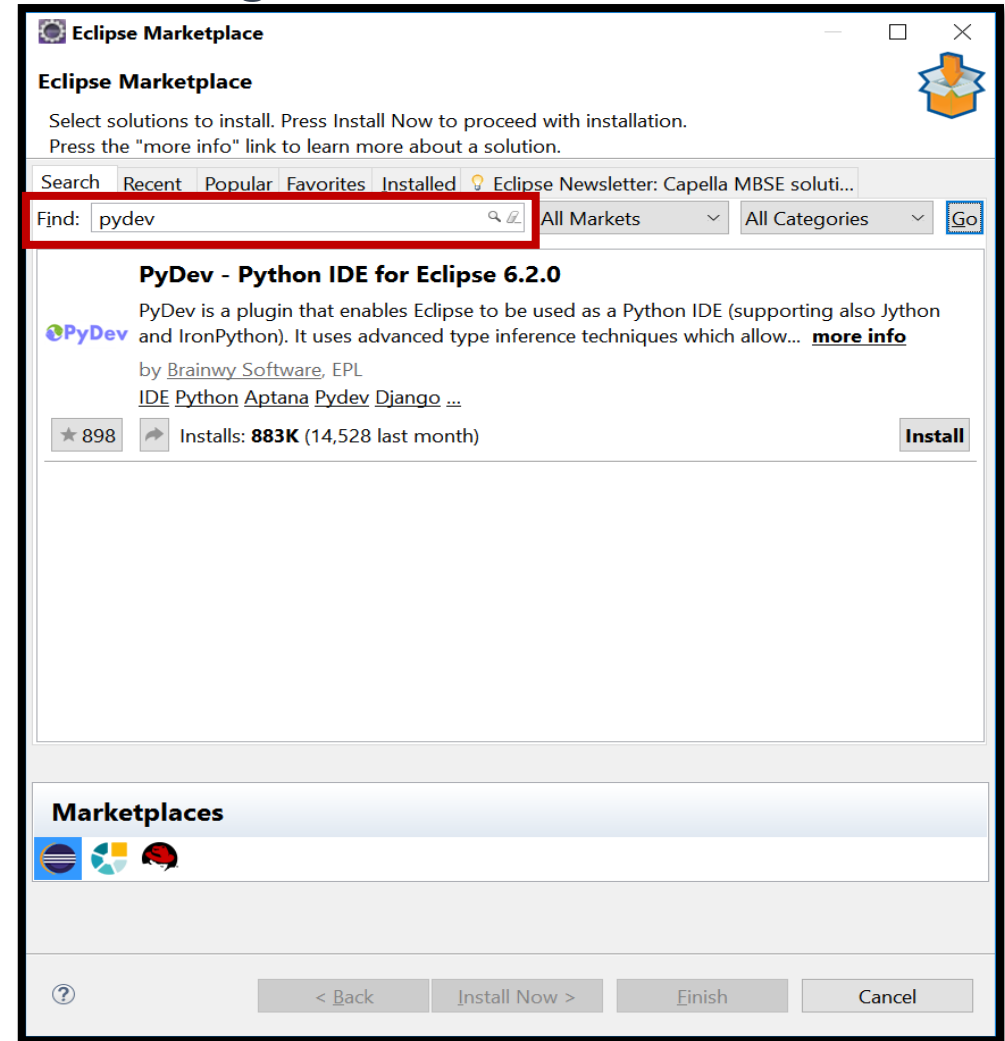
Configure WebDriver in Eclipse using PyDev

Cross Browser Testing using Selenium Python API

Configure WebDriver in Eclipse using PyDev (1)

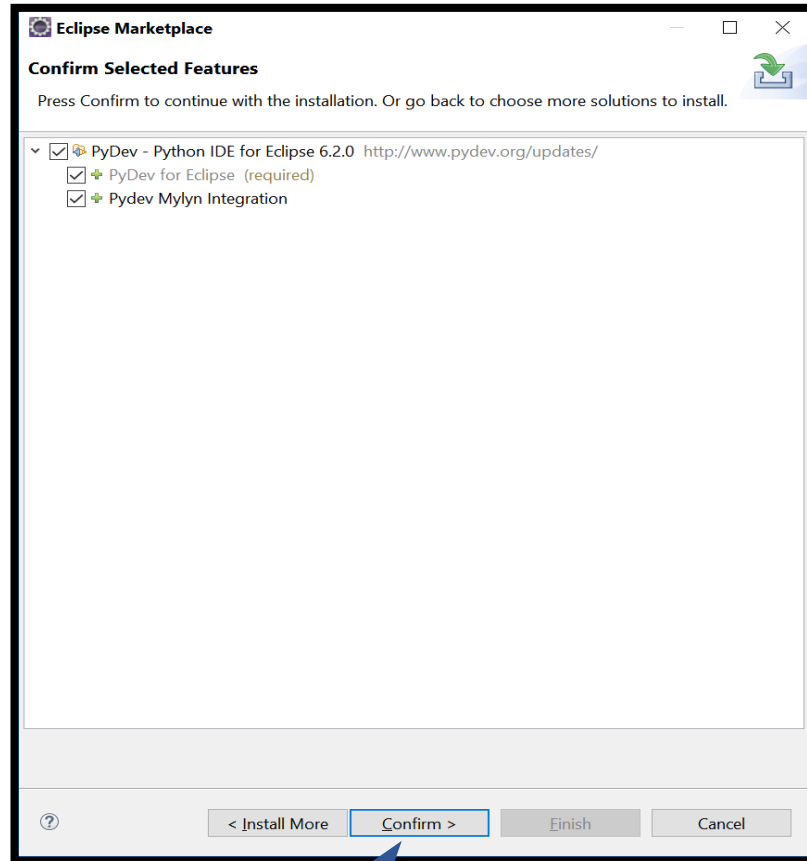
First we need to install PyDev and then obtain Selenium bindings

- Install PyDev in Eclipse
 - PyDev is a plugin that enables Eclipse to be used as a Python IDE
 - Open Eclipse, Click Help -> Eclipse Marketplace...
 - Search for **PyDev**

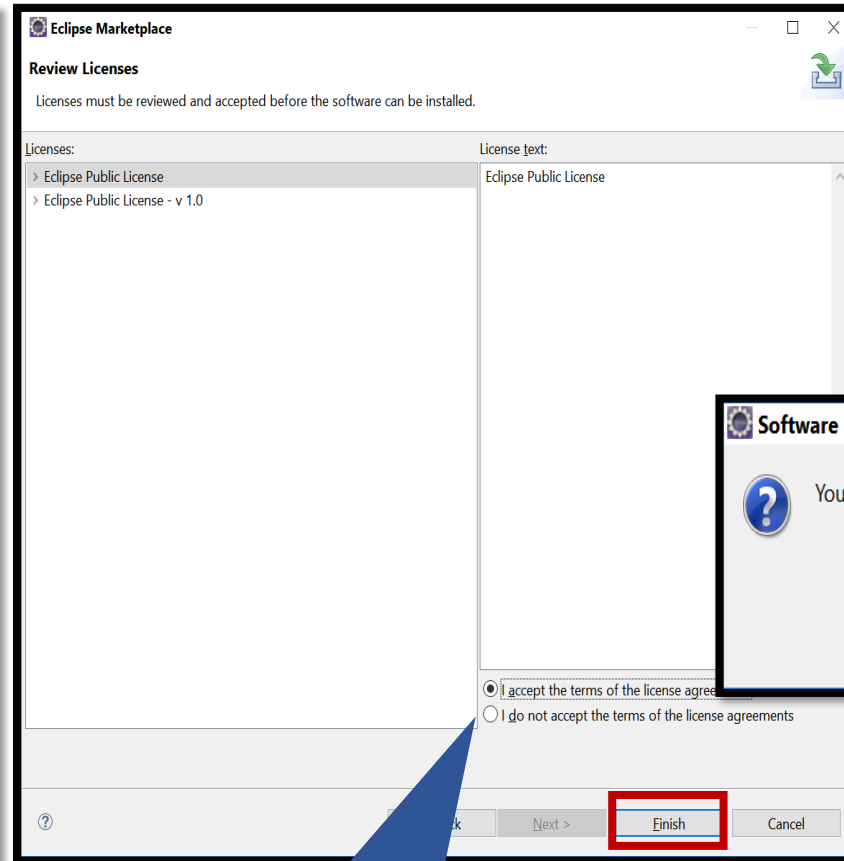


Configure WebDriver in Eclipse using PyDev (2)

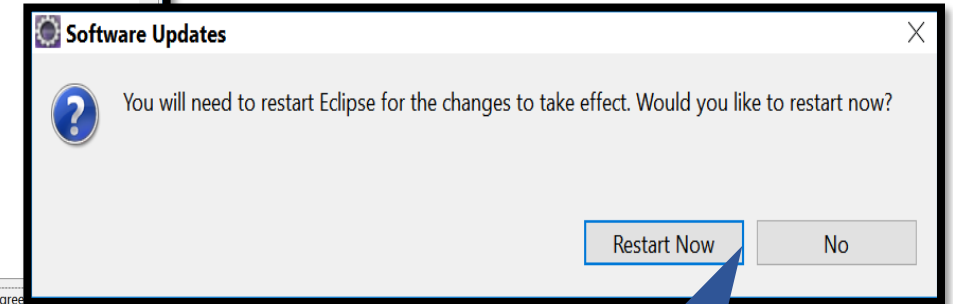
Install PyDev from Eclipse Marketplace...



Click **Confirm**



Accept the terms and
click **Finish**



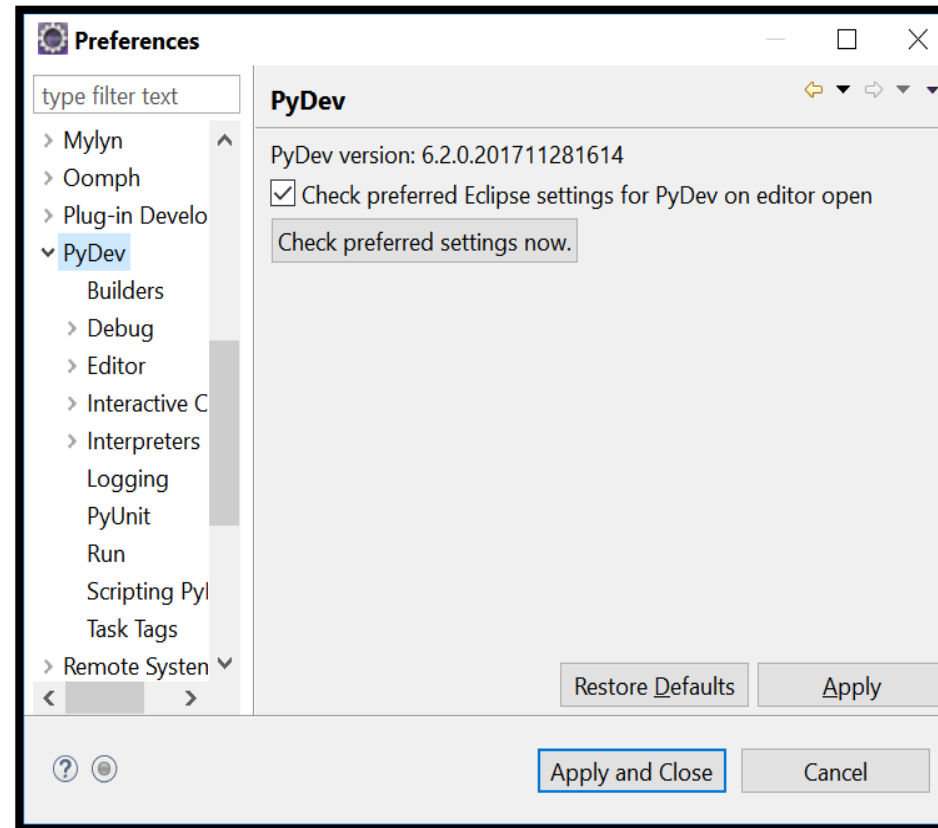
Eclipse needs to restart for
installation. Click **Restart Now**



Configure WebDriver in Eclipse using PyDev (3)

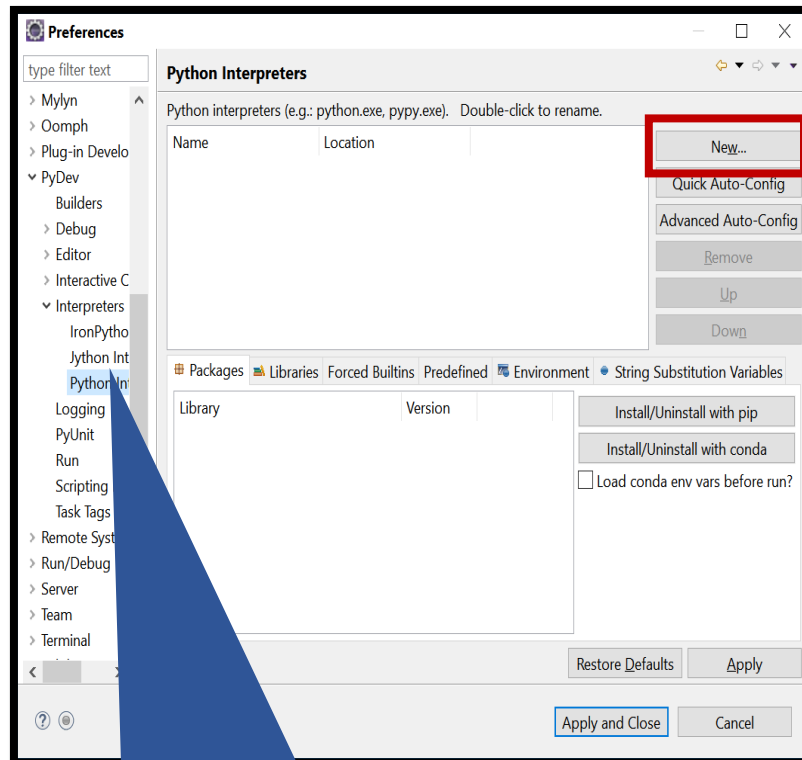
Set Preferences to Create Python Projects

To set preferences to use Python, Go to Eclipse, click **Window -> Preferences-> PyDev**

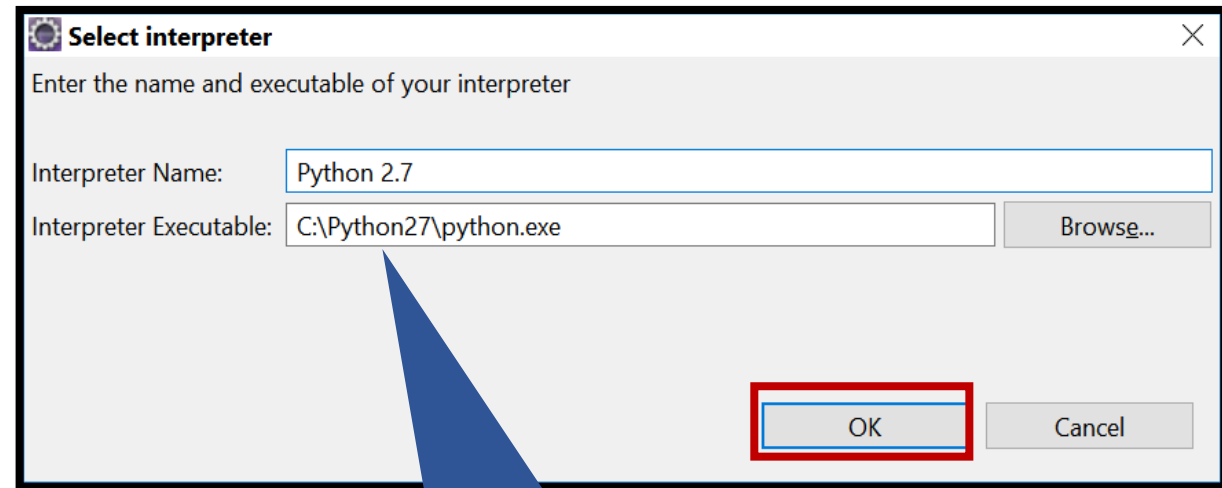


Configure WebDriver in Eclipse using PyDev (4)

Set Preferences to Create Python Projects



Click Interpreters -> Python Interpreters -> New

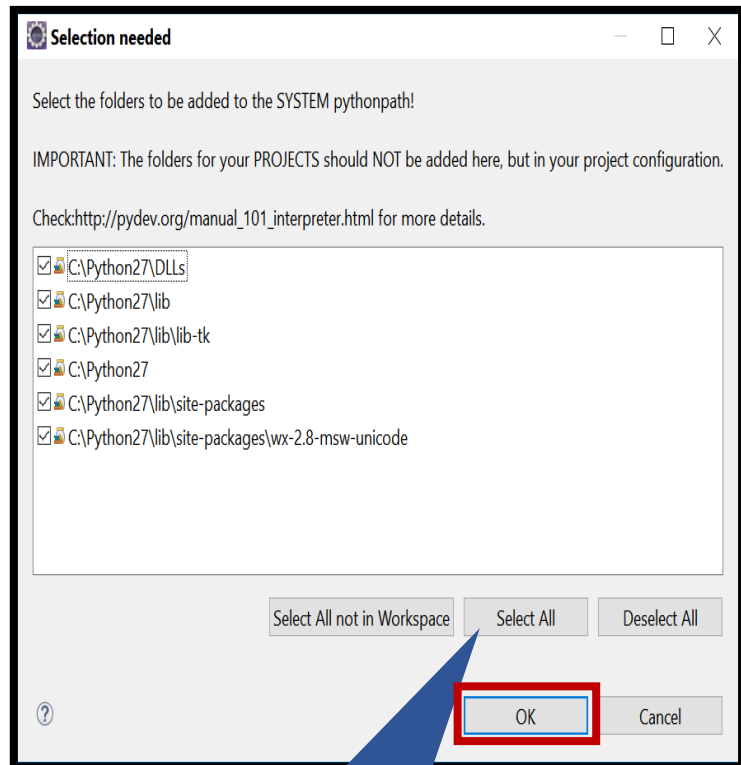


Enter the path of python.exe file and Click OK

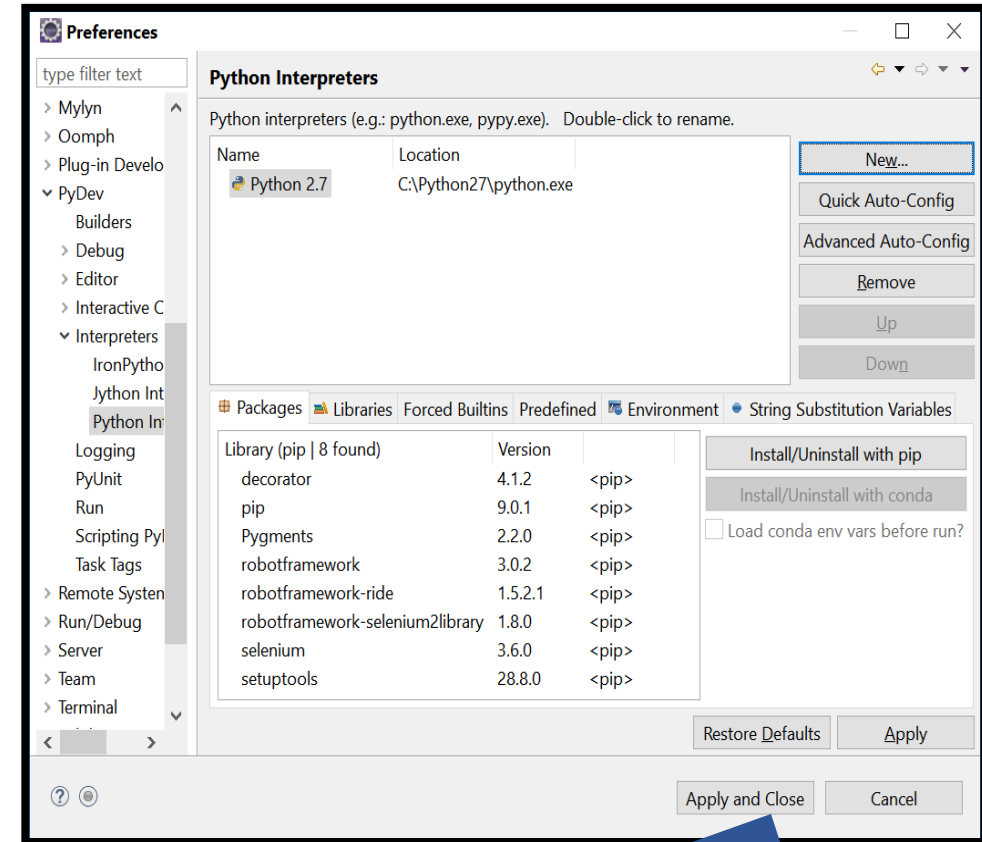


Configure WebDriver in Eclipse using PyDev (5)

Set Preferences to Create Python Projects



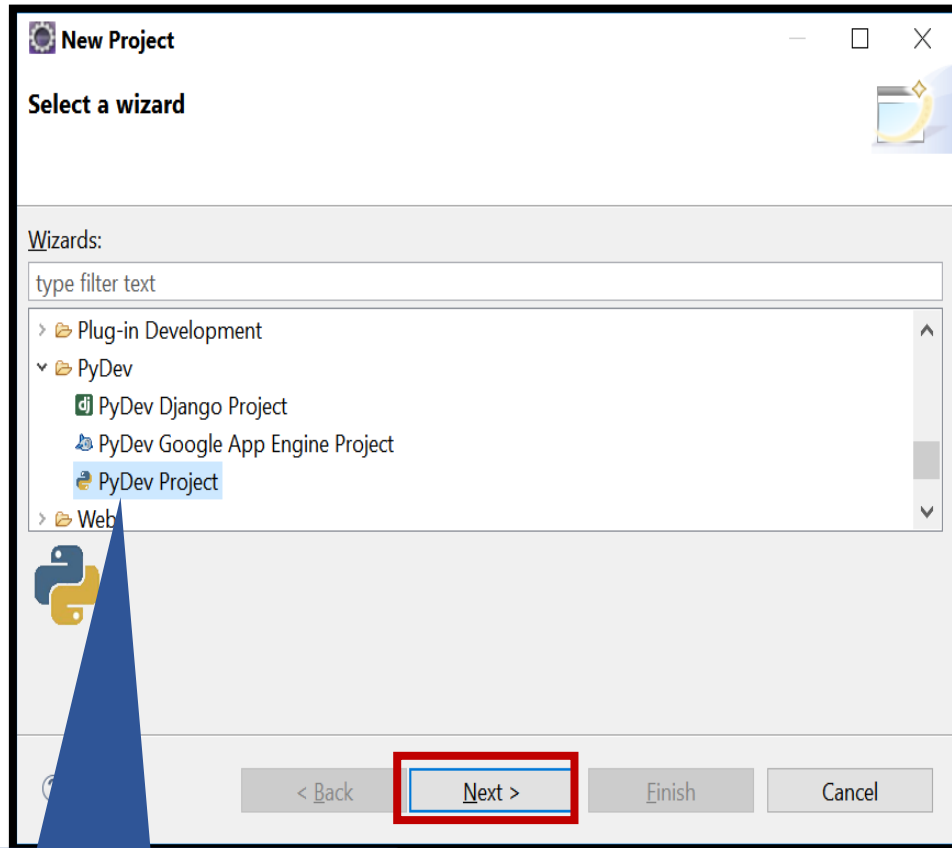
Select All & Click OK



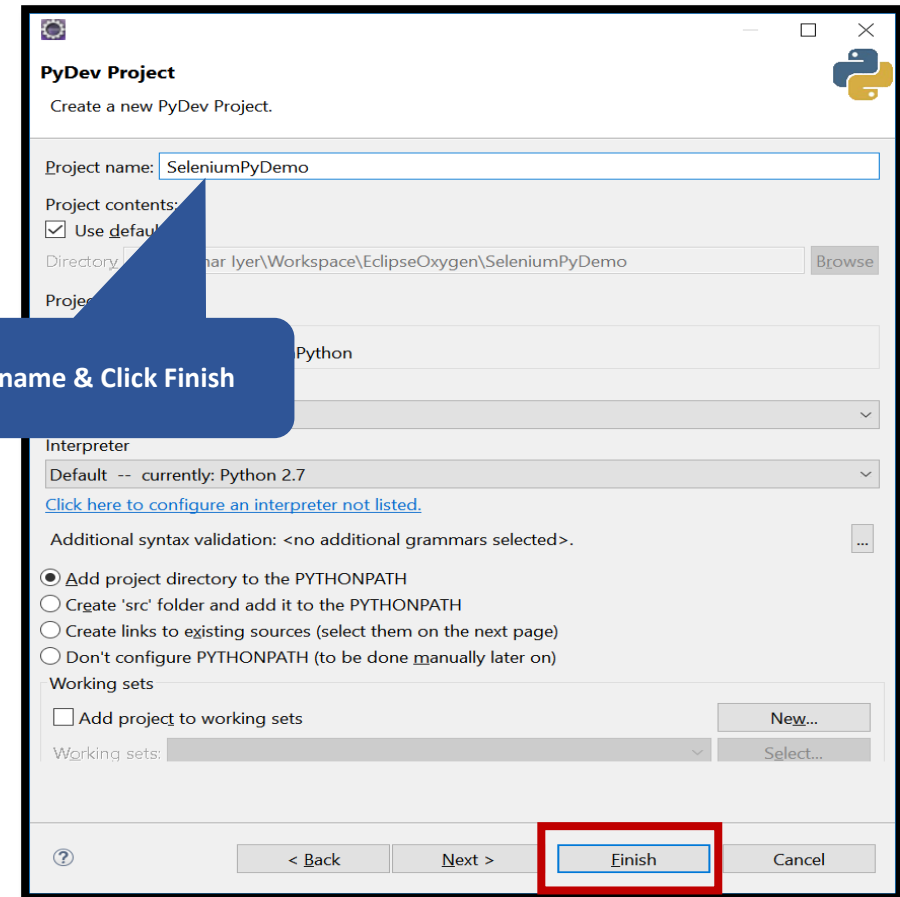
Click Apply and Close

Configure WebDriver in Eclipse using PyDev (6)

Create a Pydev Project



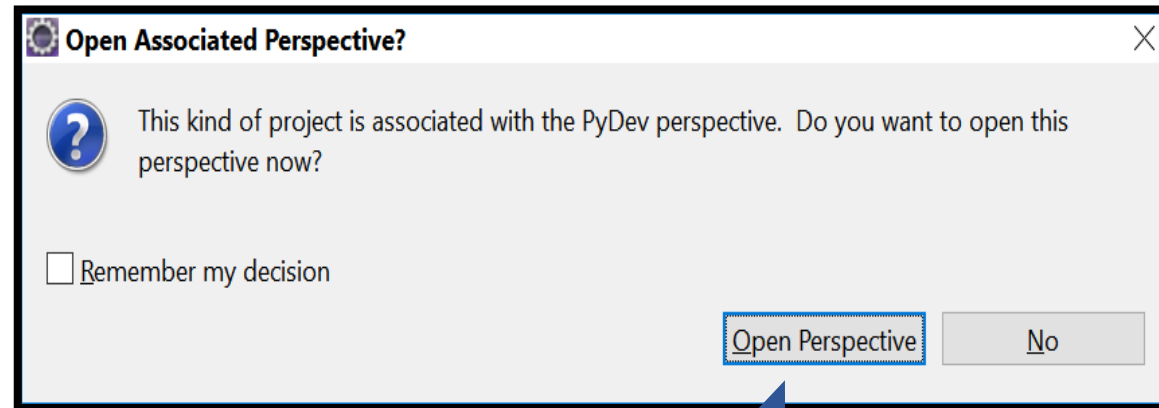
Create a new PyDev Project,
click Next



Give a Project name & Click Finish

Configure WebDriver in Eclipse using PyDev (7)

Create a Pydev Project



Click on Open Perspective



Topic List

Brief On Selenium Python

Configure WebDriver in eclipse using PyDev

Cross Browser testing using Selenium Python API

Configure WebDriver in eclipse using PyDev

Install Selenium Web Driver in Python

To install Selenium WebDriver in Python, open the Command prompt,

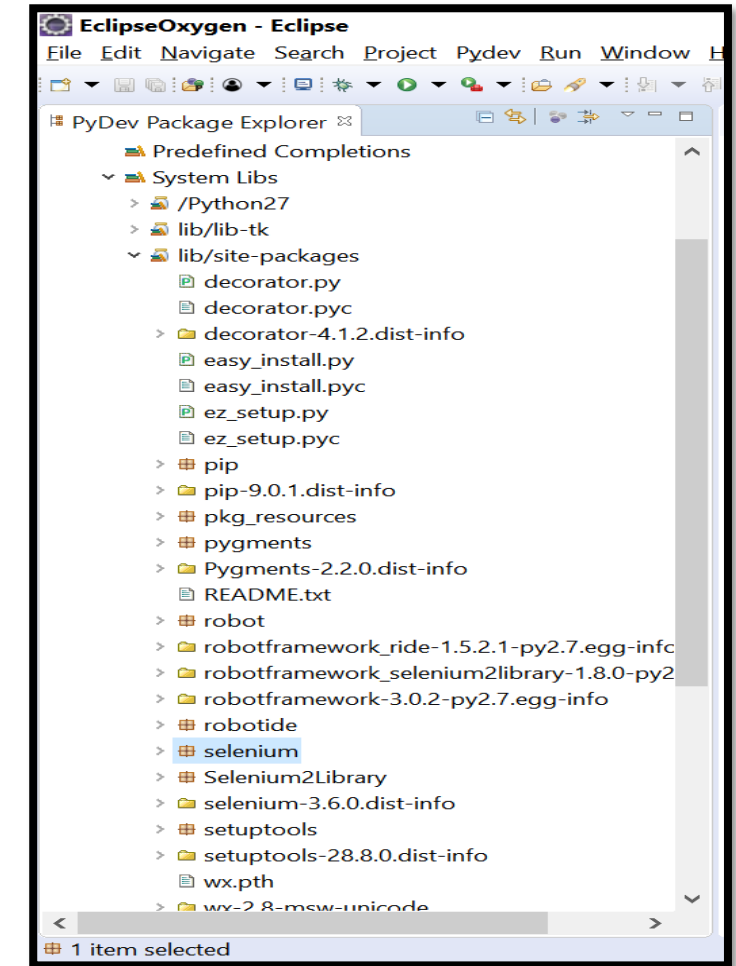
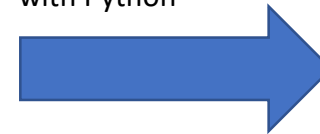
1. Type **pip install -U selenium**
2. Press enter

```
Administrator: Command Prompt

C:\windows\system32>pip install -U selenium
Collecting selenium
  Downloading selenium-3.8.1-py2.py3-none-any.whl (942kB)
    100% |#####| 952kB 624kB/s
Installing collected packages: selenium
  Found existing installation: selenium 3.6.0
  Uninstalling selenium-3.6.0:
    Successfully uninstalled selenium-3.6.0
  Successfully installed selenium-3.8.1

C:\windows\system32>_
```

WebDriver configured
with Python



Topic List

Brief On Selenium Python

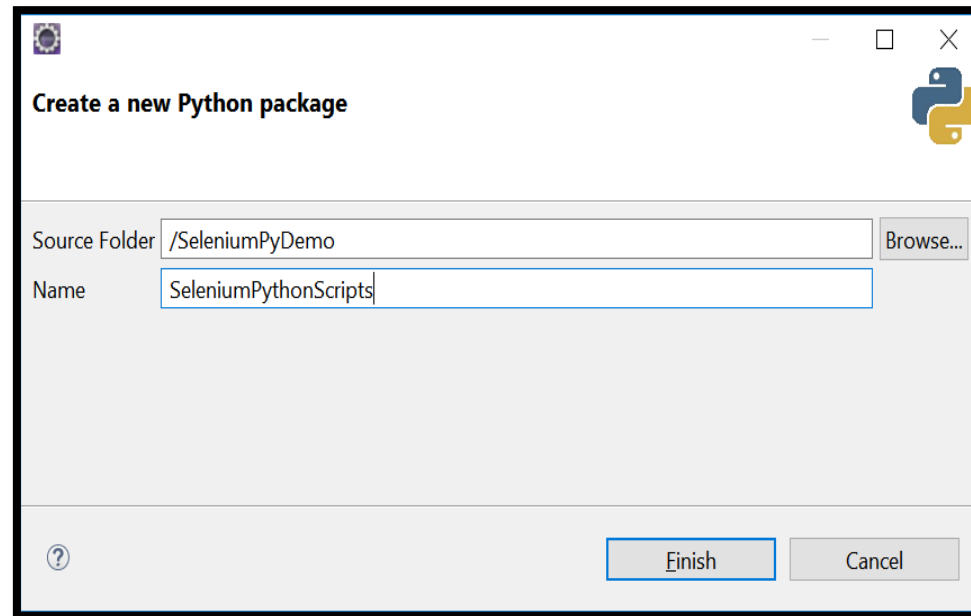
Configure WebDriver in eclipse using PyDev

Cross Browser testing using Selenium Python API

Cross Browser testing using Selenium Python API

Run Selenium Scripts on Firefox, Chrome Browser, IE Explorer

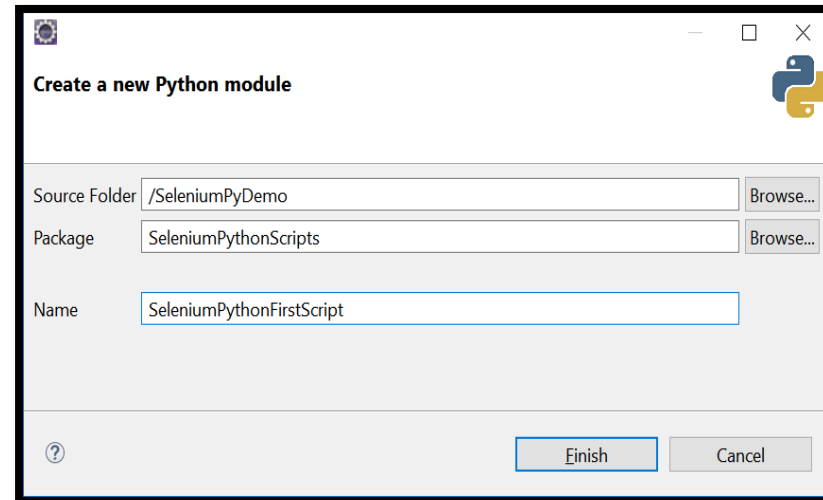
Creating New PyDev
Package



Cross Browser testing using Selenium Python API

Run Selenium Scripts on Firefox, Chrome Browser, IE Explorer

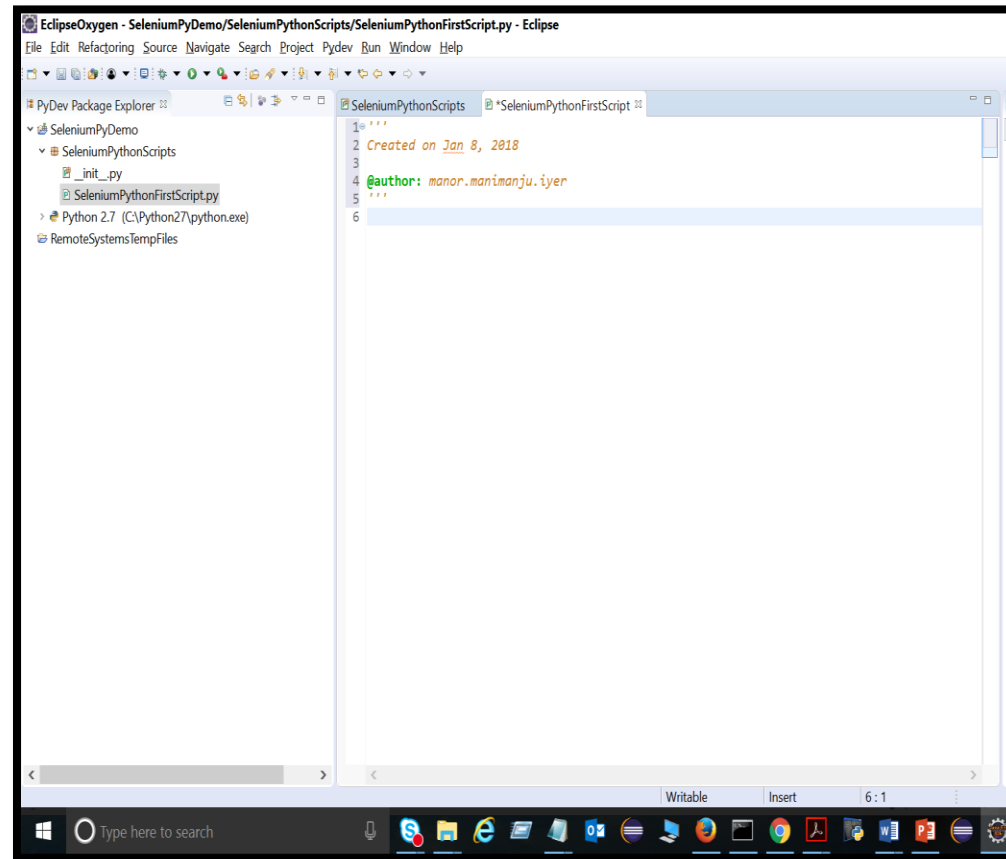
Creating New PyDev
module



Click on Finish

Cross Browser testing using Selenium Python API

Run Selenium Scripts on Firefox, Chrome Browser, IE Explorer



Cross Browser testing using Selenium Python API

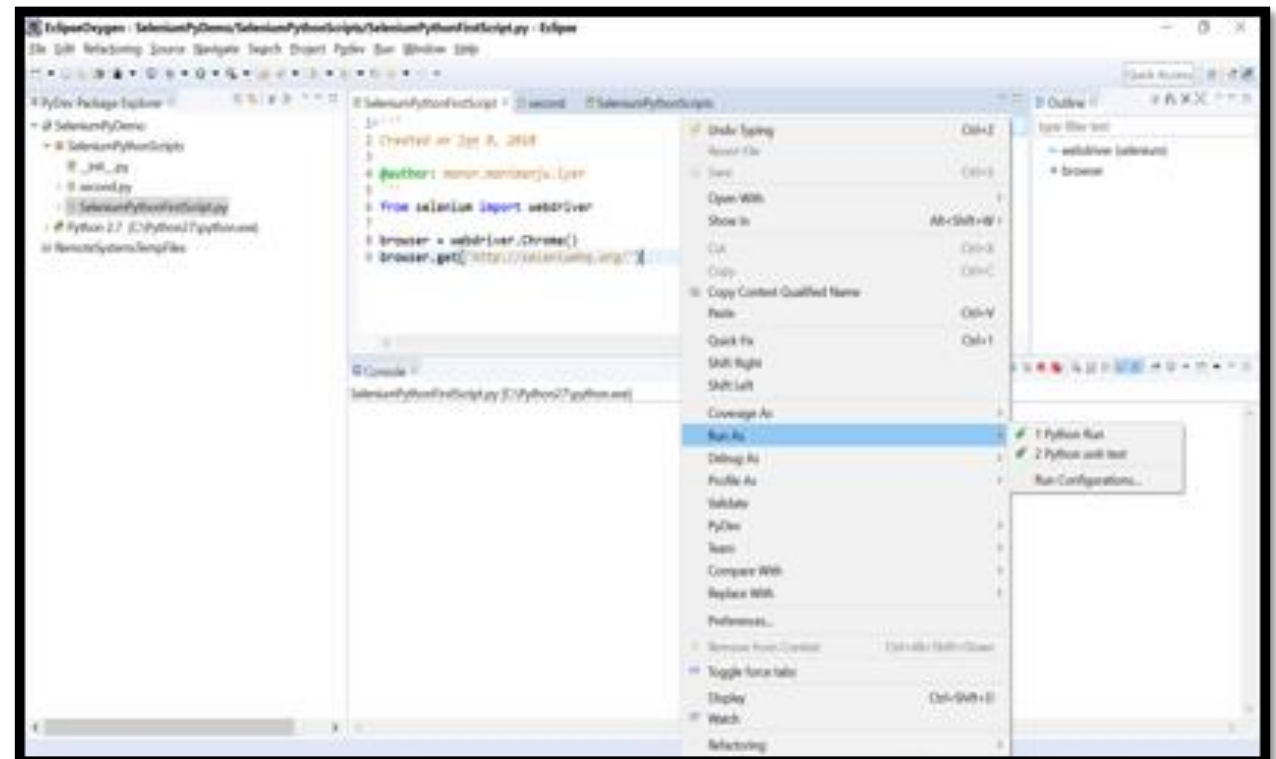
Run Selenium Scripts on Firefox, Chrome Browser, IE Explorer

- The following code snippet interact Selenium with Chrome browser (chromedriver.exe)

```
from selenium import webdriver
```

```
browser = webdriver.Chrome("path to the chromedriver.exe")
```

```
browser.get('http://seleniumhq.org/')
```



Exercise 3.1 Cross Browser Testing

Design a test script in python using selenium python API and launch the new tours demo in different browsers like IE, Chrome , FirefoxDrivers



Refer Exercise 3.1 in Selenium with Python_wbk.doc for the detailed steps.

Module Summary

Now, you should be able to:

- Explain why Selenium with Python
- Describe configuring Selenium WebDriver in eclipse using PyDev
- Illustrate how to perform cross browser testing using Selenium Python API



Thank You