

SELENIUM

Objective:

Write and run test cases in Selenium.

Selenium:

Automation tools like Selenium are used to beat the tedious challenges of manual testing.

Some of the main advantages for using Selenium are as follows:

Selenium is:

- Is an open-source tool that can automate any web browser and is available for free.
- Works with with any operating system (windows. linux, mac).
- Supports multiple environments and multiple programming languages (Java, C#, ruby, python, perl and php).
- Directly runs scripts for any web browser to automate the web application and test it.
- Is fast and easy to use even with large sets of data, and has a guaranteed accuracy.

Download and Install python on windows, selenium python libraries, download IDE PyCharm and perform necessary upgrades.

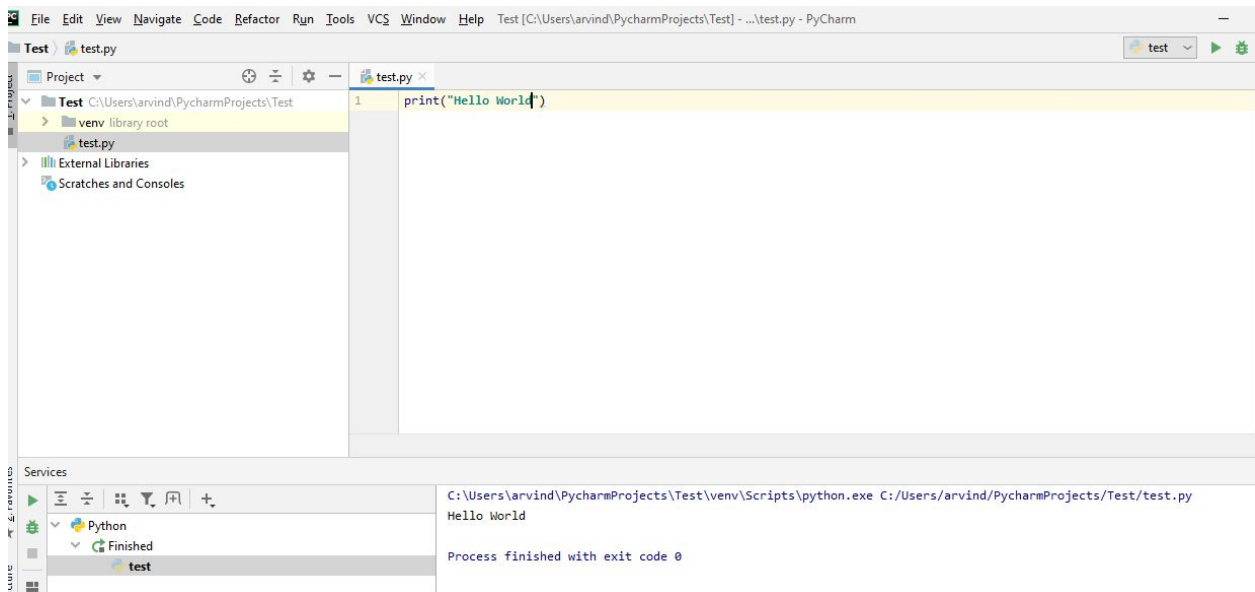
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Command Prompt

C:\Users\arvind>pip --version
pip 19.2.3 from c:\users\arvind\appdata\local\programs\python\python38-32\lib\site-packages\pip (python 3.8)

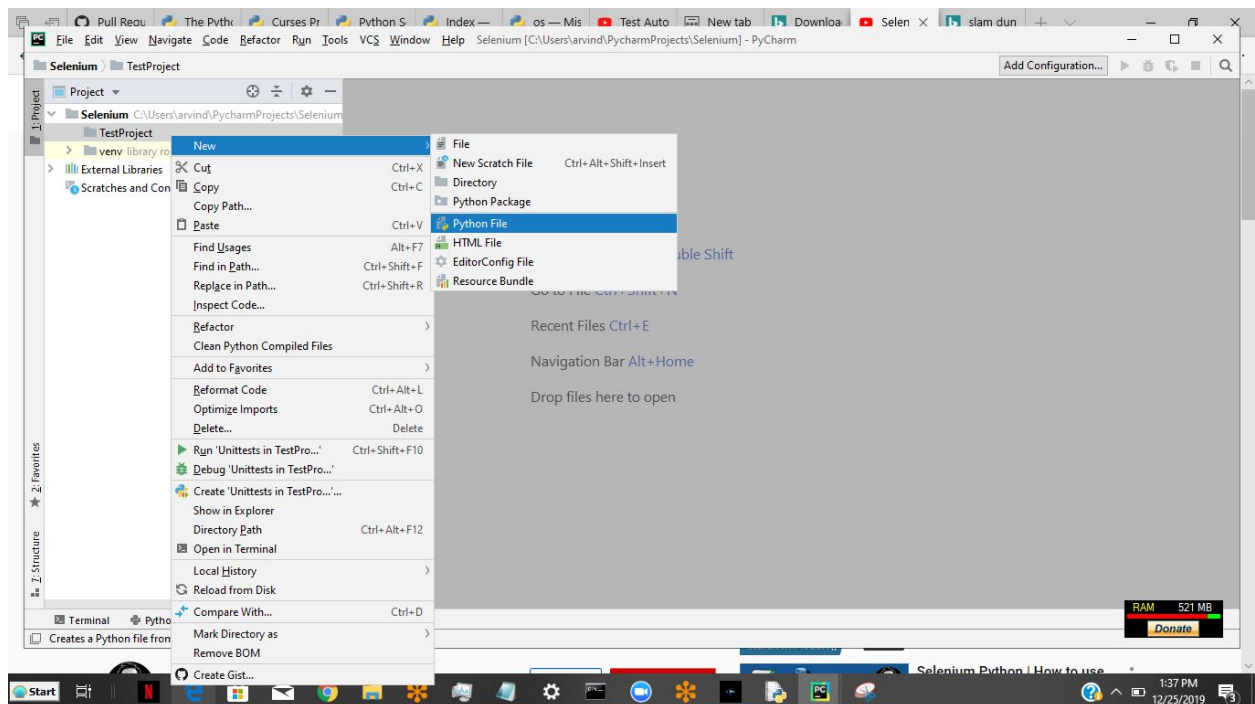
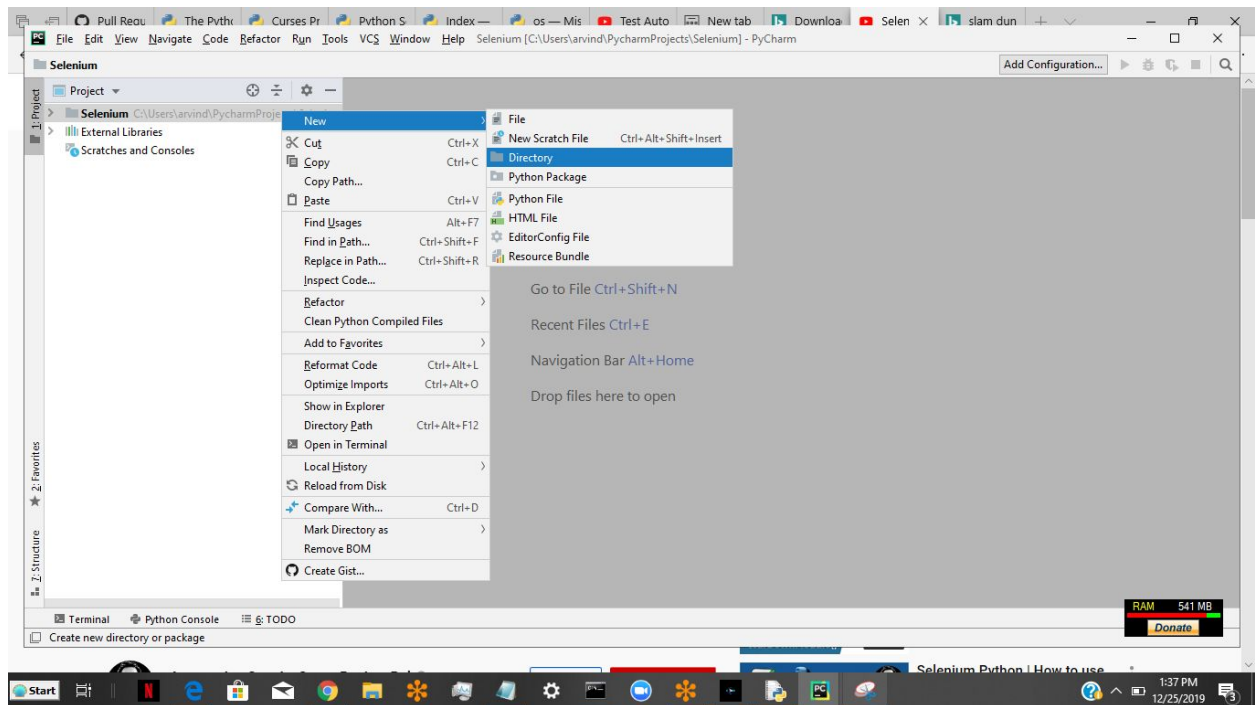
C:\Users\arvind>pip install -U selenium
Collecting selenium
  Downloading https://files.pythonhosted.org/packages/80/d6/4294f0b4bce4de0abf13e17190289f9d0613b0a44e5dd6a7f5ca98459853/selenium-3.141.0-py2.py3-none-any.whl (904kB)
    |#####| 911kB 595kB/s
Collecting urllib3 (from selenium)
  Downloading https://files.pythonhosted.org/packages/b4/40/a9837291310ee1ccc242ceb6ebfd9eb21539649f193a7c8c86ba15b98539/urllib3-1.25.7-py2.py3-none-any.whl (125kB)
    |#####| 133kB 1.7MB/s
Installing collected packages: urllib3, selenium
Successfully installed selenium-3.141.0 urllib3-1.25.7
WARNING: You are using pip version 19.2.3, however version 19.3.1 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.

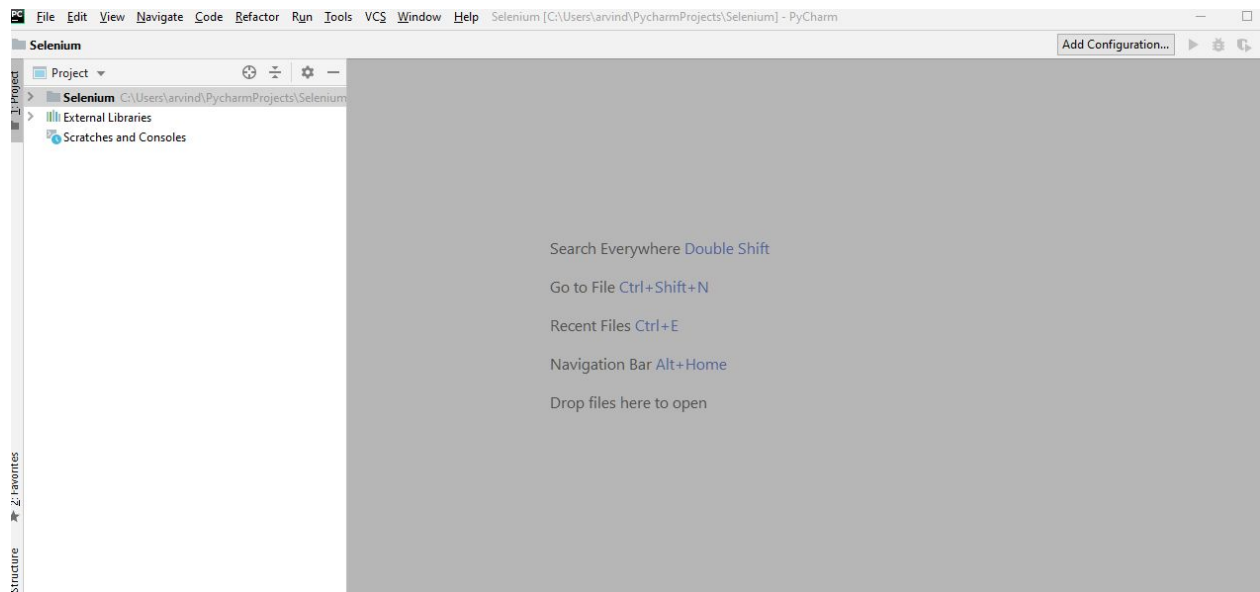
C:\Users\arvind>python -m pip install --upgrade pip
Collecting pip
  Downloading https://files.pythonhosted.org/packages/00/b6/9cfa56b4081ad13874b0c6f96af8ce16c1cb06bedf8e9164ce5551ec1/pip-19.3.1-py2.py3-none-any.whl (1.4MB)
    |#####| 1.4MB 2.2MB/s
Installing collected packages: pip
Found existing installation: pip 19.2.3
Uninstalling pip-19.2.3:
  Successfully uninstalled pip-19.2.3
Successfully installed pip-19.3.1
```

Create a new “Test” project and “test.py python file and write a hello world program

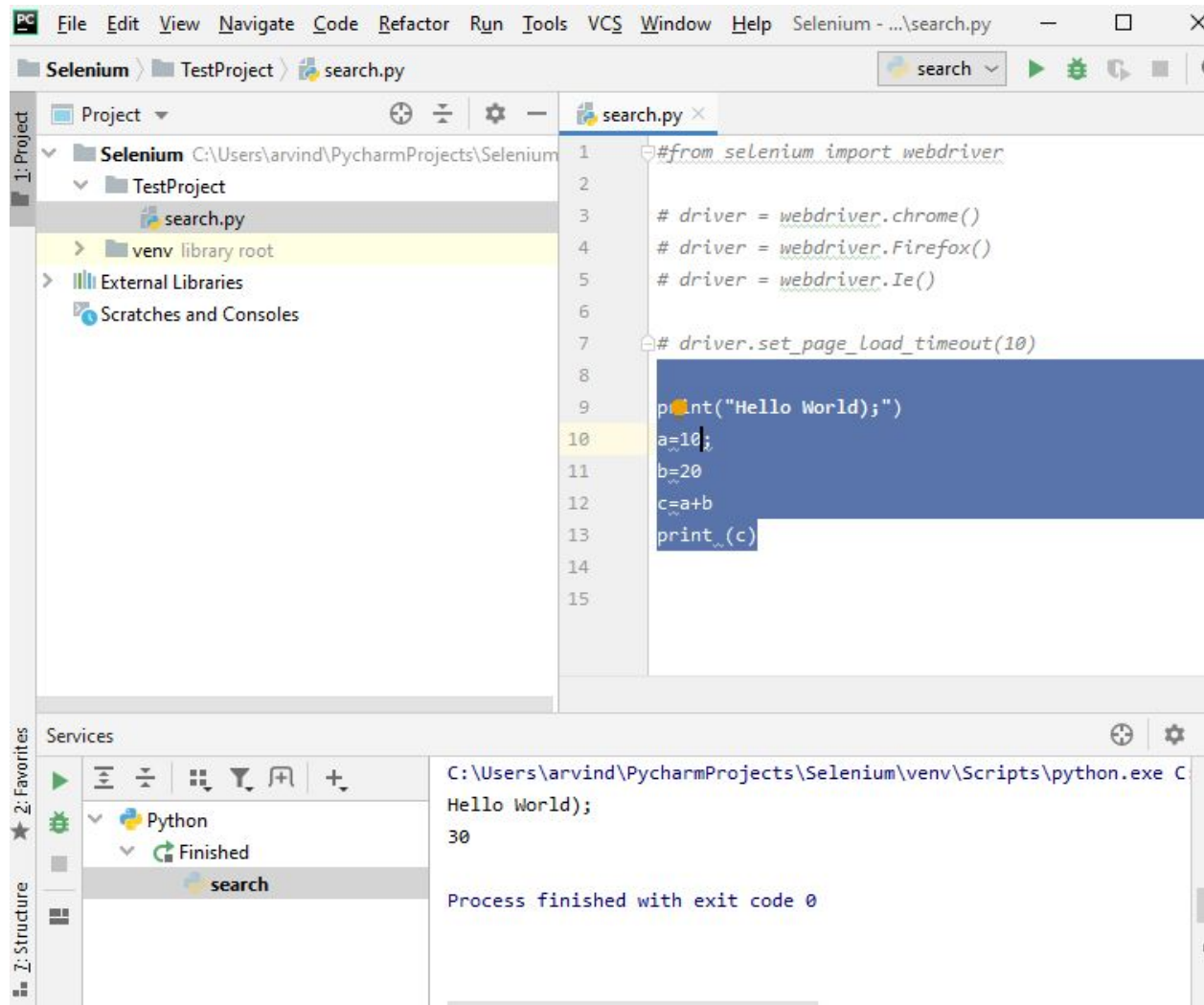


Create another project called “Selenium” and file called “search.py” with some test scripts.

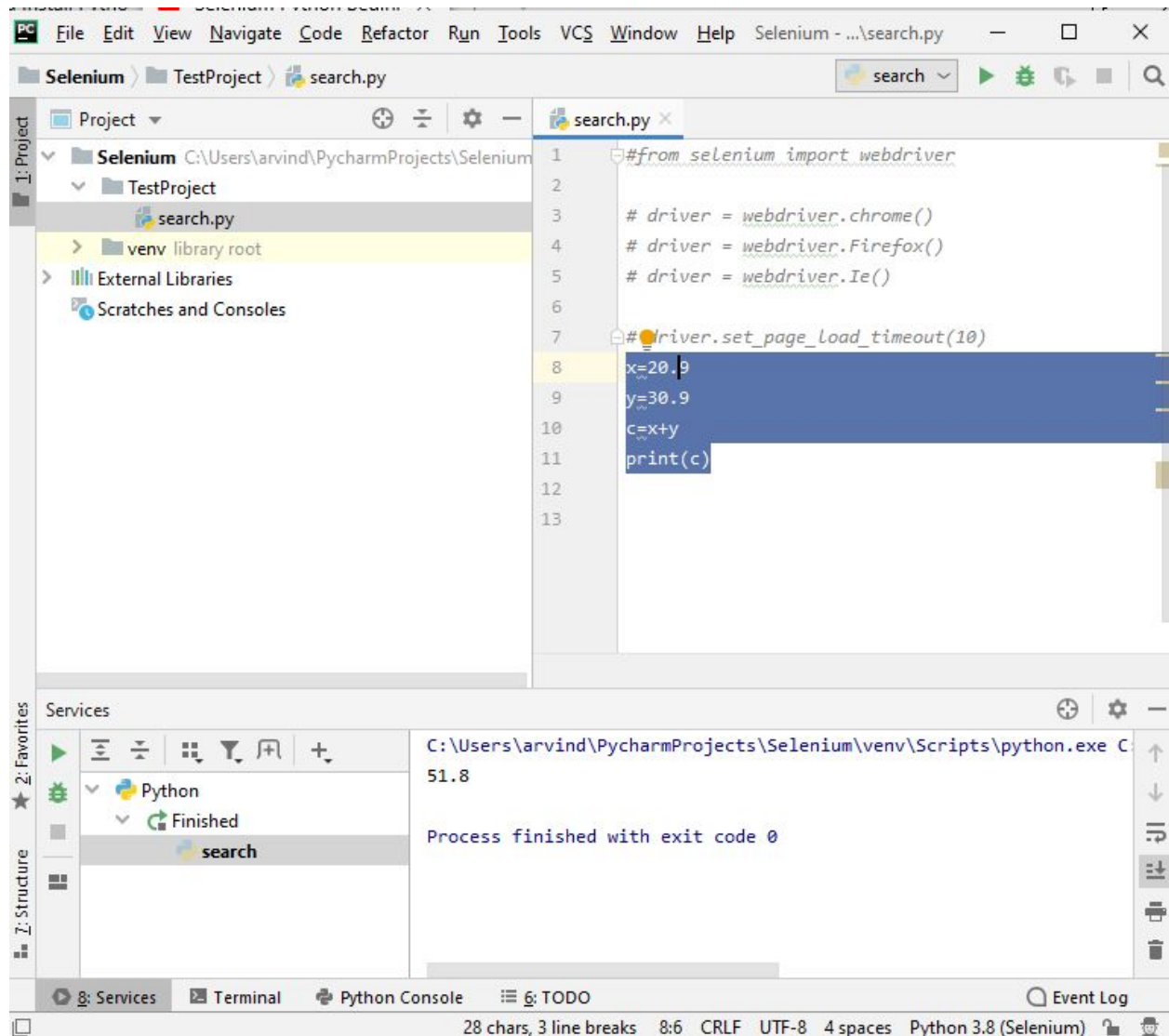




Run and validate the “search.py” python file.



Make some changes to the test scripts on “search.py” python file
Run and validate the program.



Resources:

Python

<https://www.python.org/downloads/>

Pycharm

<https://www.jetbrains.com/pycharm/>