

Pycharm Installation & Execution

Agenda:

In this document we are going to learn how to install Pycharm on the machine and how to execute any python program. Pycharm is a type of IDE which can be used to create projects and write python codes.

Pycharm Installation:

Lets complete the installation step by step for Pycharm first:

1. Open this link -
<https://www.jetbrains.com/pycharm/download/#section=linux>
2. Select your OS - linux/mac/windows

Download PyCharm

Windows Mac Linux

Professional

For both Scientific and Web Python development. With HTML, JS, and SQL support.

Download

Free trial

Community

For pure Python development

Download

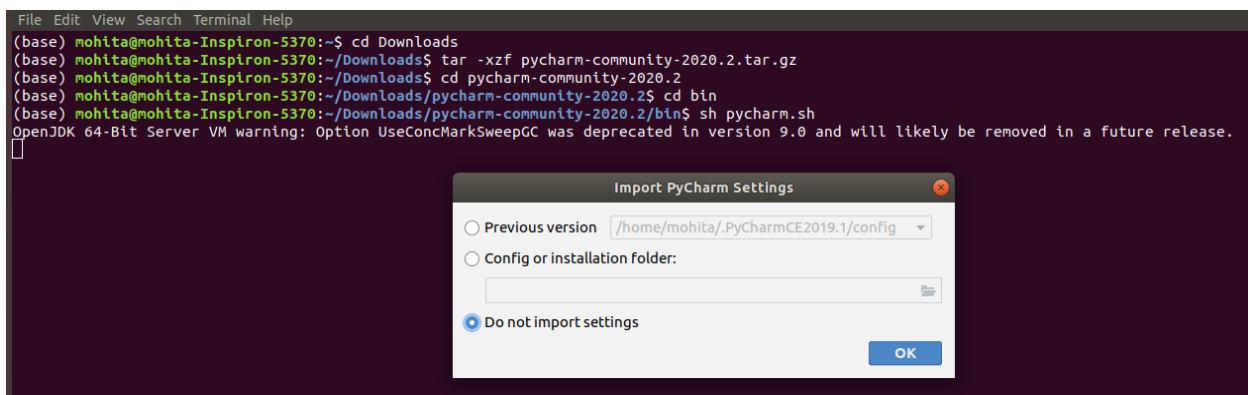
Free, open-source

3. Download **the community Edition which is free and open source.**
4. For Linux/ubuntu
 - open terminal and run the below commands
 - cd Downloads
 - tar -xzf pycharm-community-2020.2.tar.gz

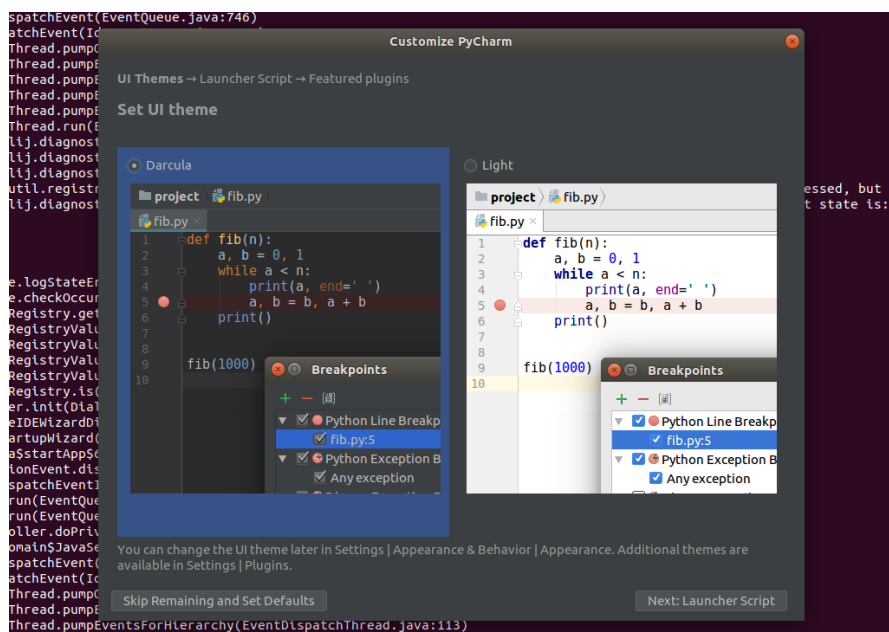
```
(base) mohita@mohita-Inspiron-5370:~$ cd Downloads
(base) mohita@mohita-Inspiron-5370:~/Downloads$ tar -xzf pycharm-community-2020.2.tar.gz
(base) mohita@mohita-Inspiron-5370:~/Downloads$
```

- cd pycharm-community-2020.2
- cd bin
- sh pycharm.sh

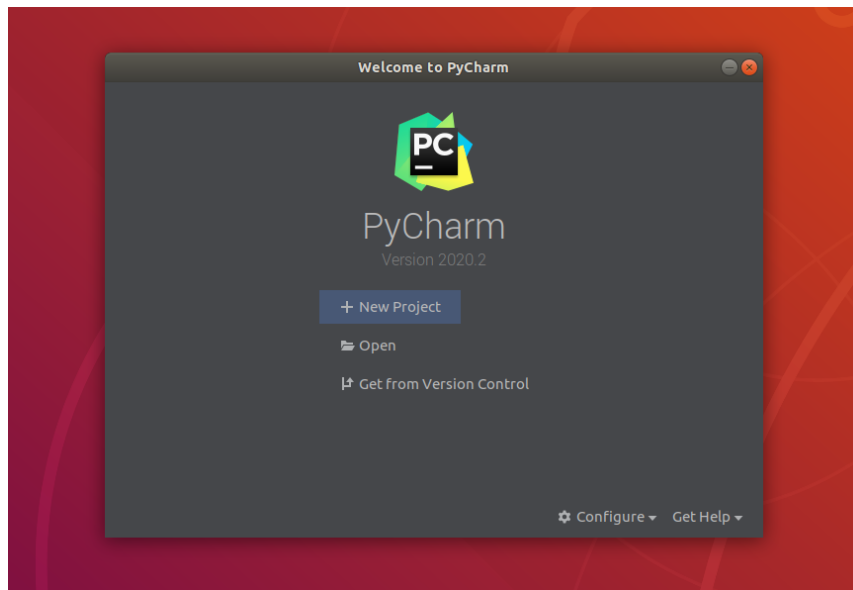
5. It will open a window like this. Choose 'do not import settings' and click ok.



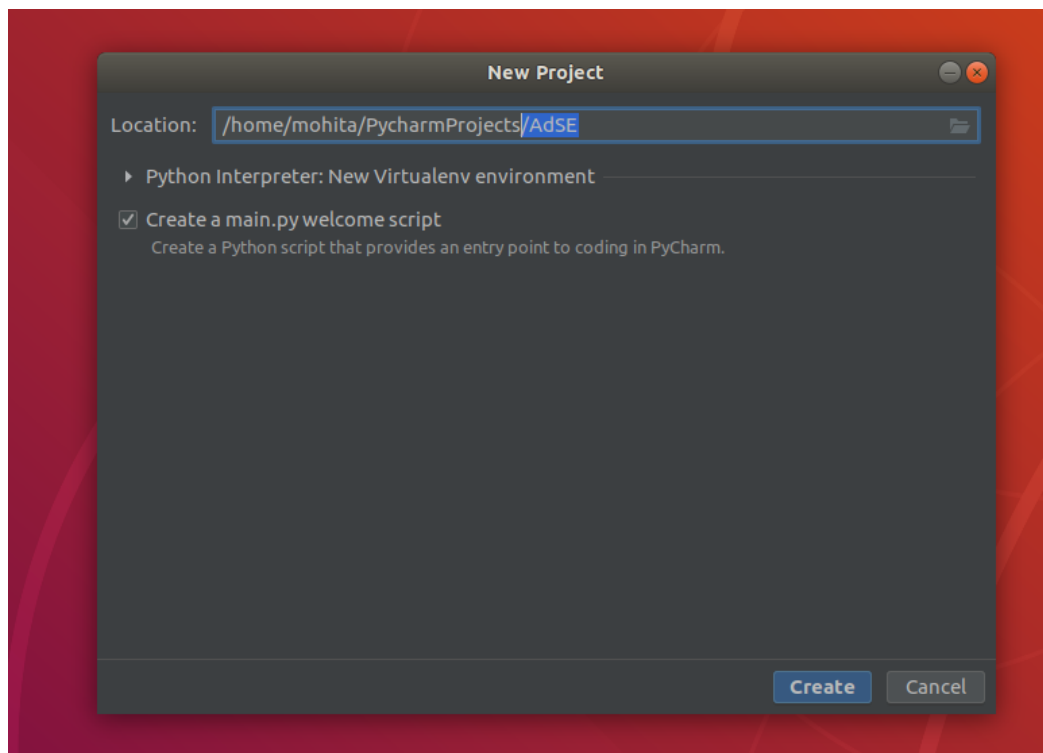
6. This will pop up a window like this. Choose to set default options.



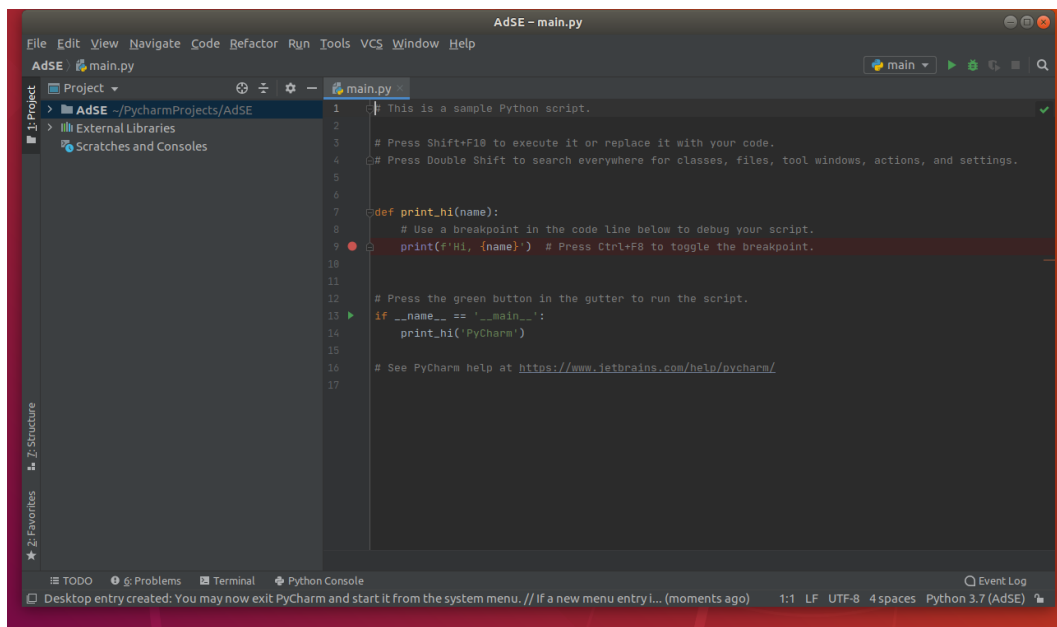
7. Once done you will see a screen like this. You can start by creating a new Project. Click on the New Project.



8. Enter the name of your project and click on create.



9. This will simply create a virtual environment for your project and it will as the screenshot mentioned below.



You can also refer to below links for more details -

<https://www.jetbrains.com/help/pycharm/installation-guide.html>

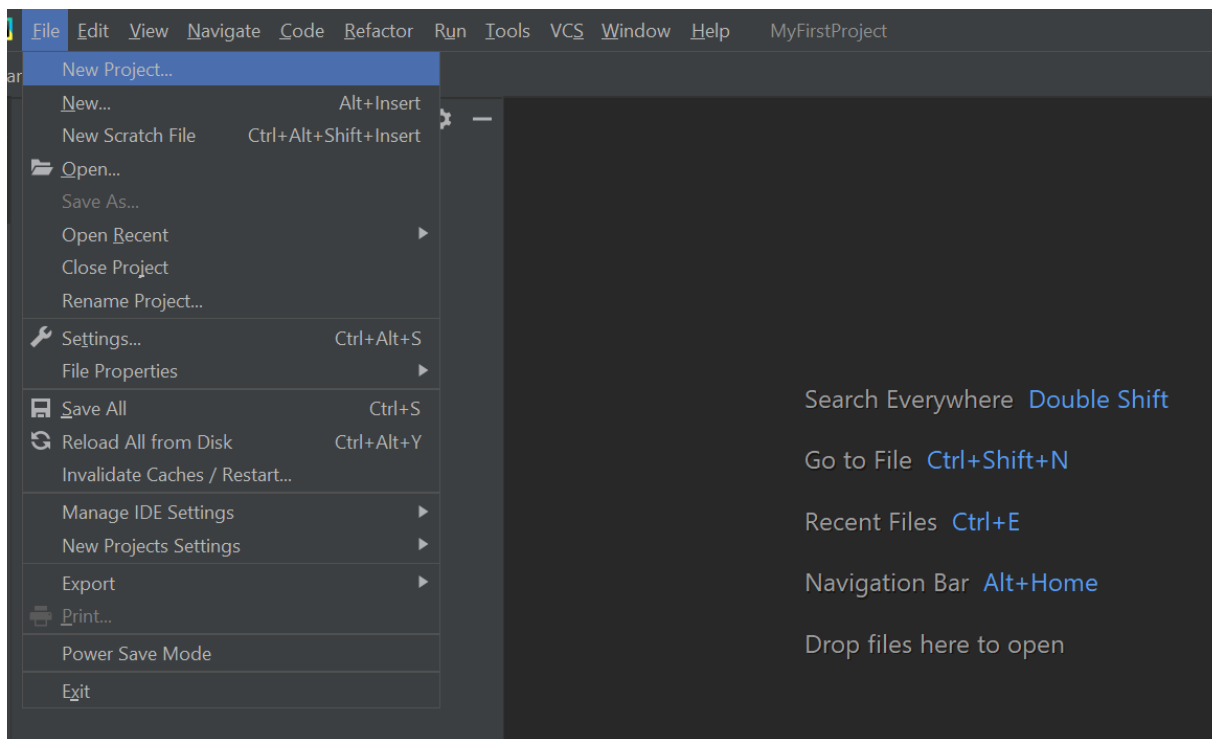
<https://www.jetbrains.com/pycharm/>

Python execution:

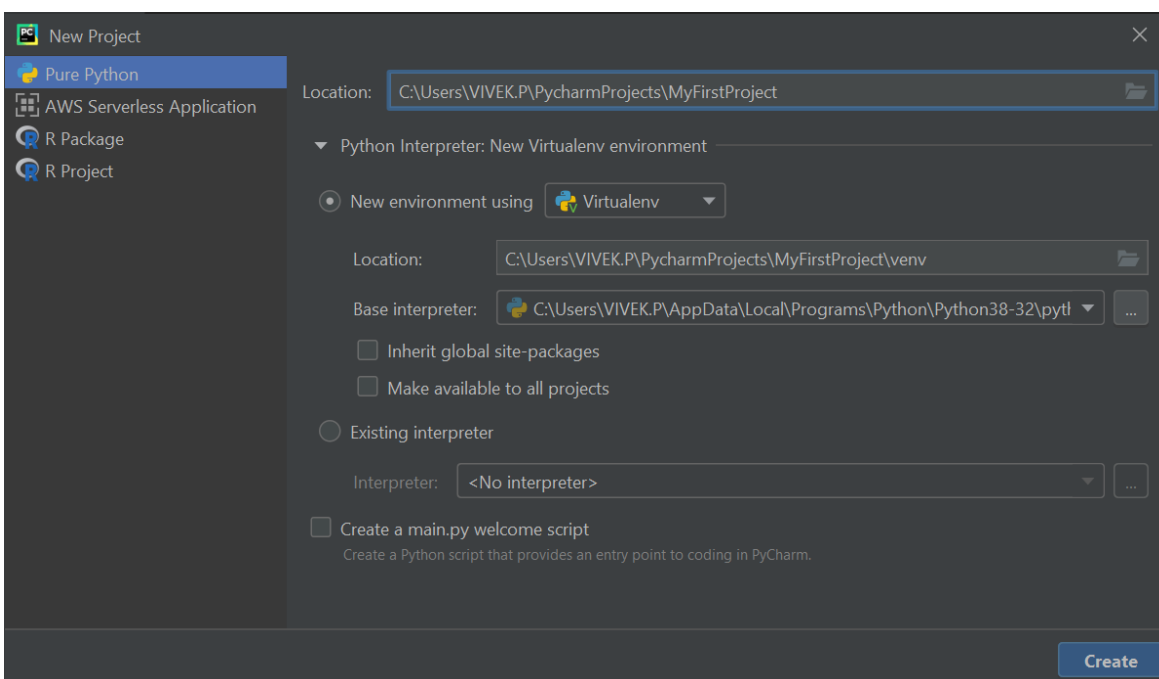
Once we are done with Pycharm installation, we can start working on how to execute the first program on python. Again we need to ensure that pycharm is installed properly on your respective system.

Once the installation is complete follow the below steps to create a project and python file on Pycharm.

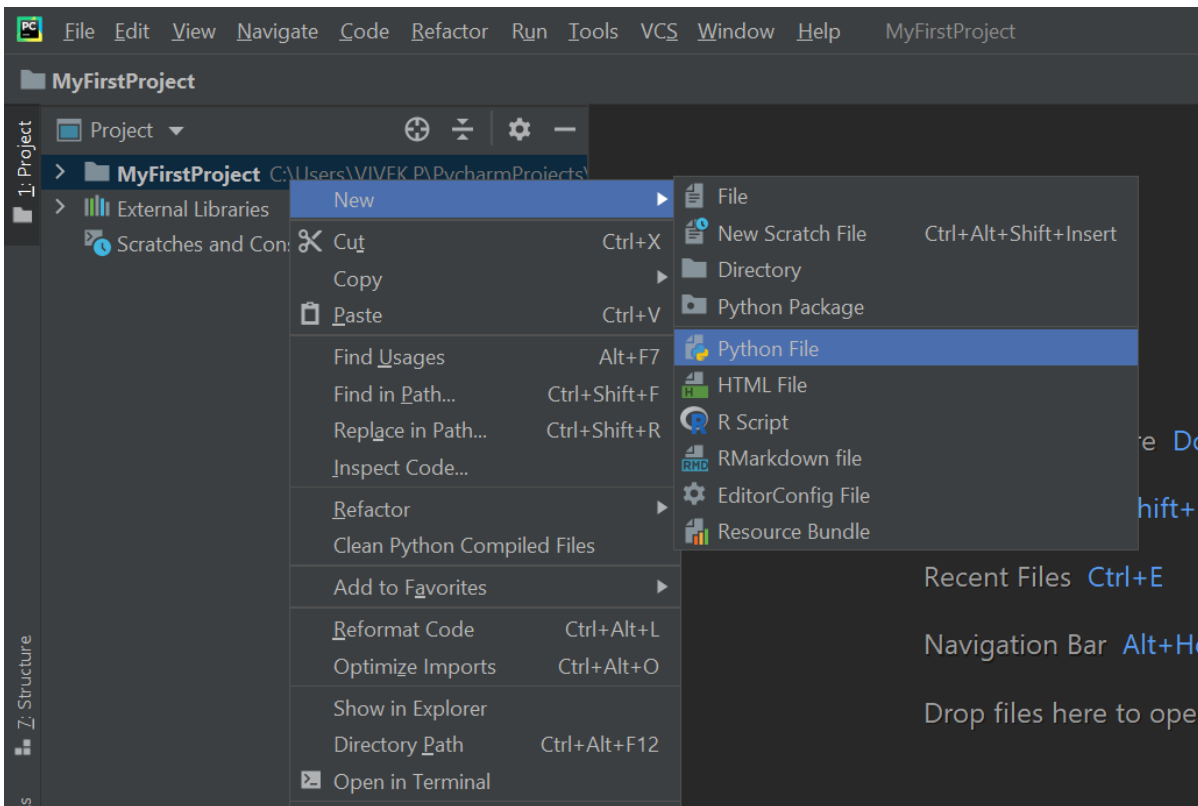
- Let's create a project with the name "MyFirstProject". To do that click on **File** and click on New Project. It will look something like this:



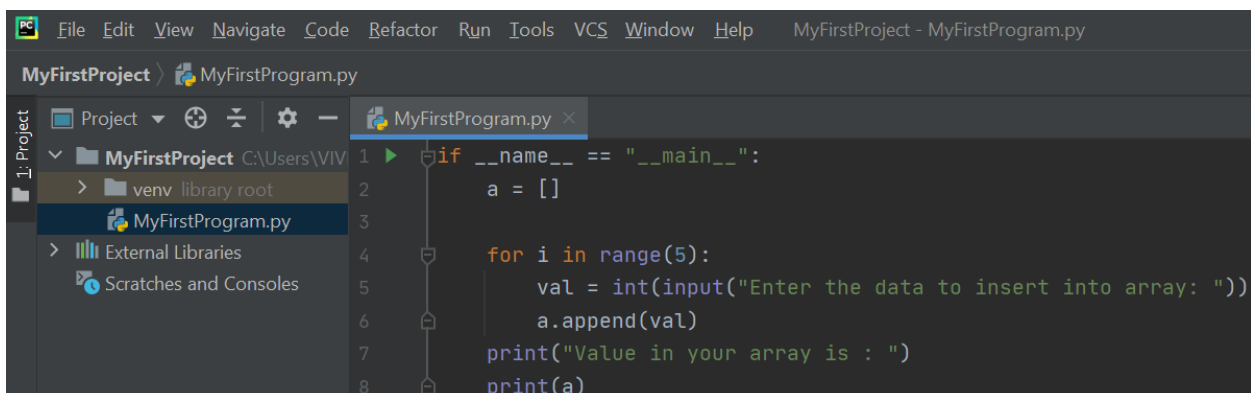
- Once you click on New Project it will open a new window where you can rename the project and choose whether you want to initialize your project file with the **main function** or not. It will look like this:



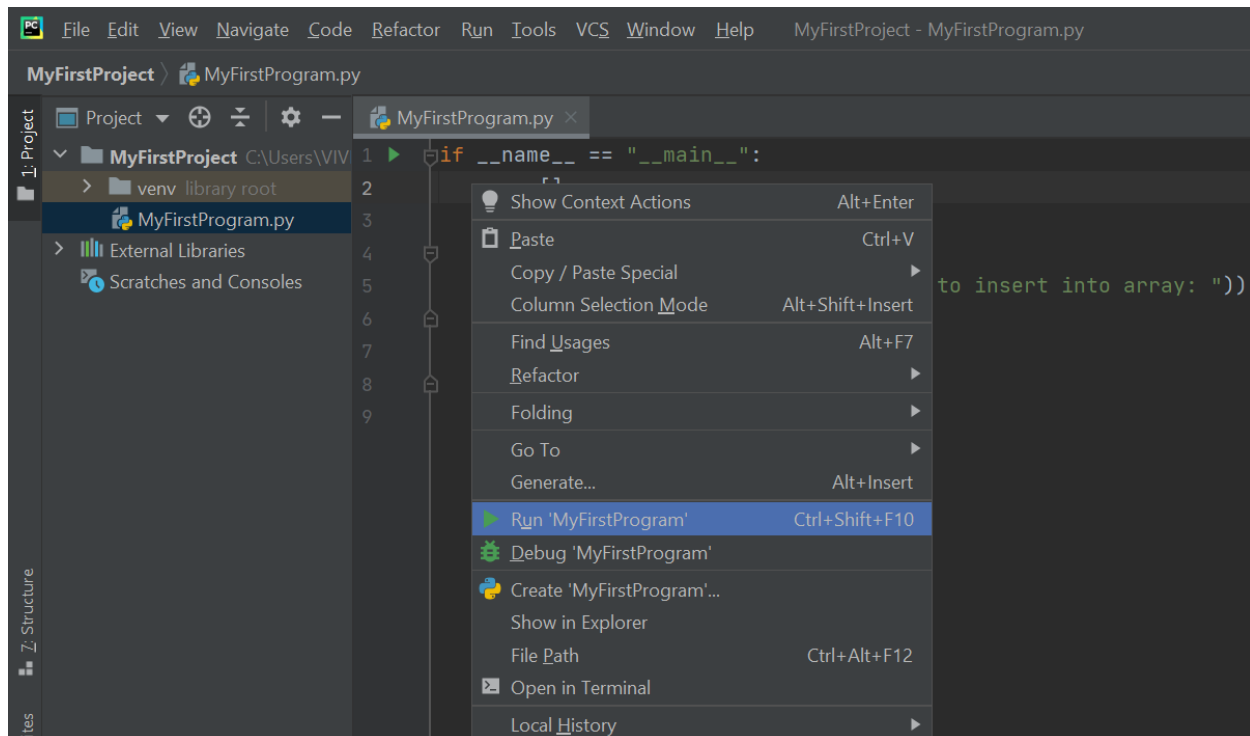
- Now click on create and your new project file will be created with the virtual environment enabled automatically. New project creation will generally take a few seconds. Once done, we will create our first python file for execution.
- To create the python file right click on the project then goto New and then choose python file. A representational screenshot is below:



- Now enter the name of your python file and start writing python code. Once you have written the code with the **main** function in it. Click on the green button to execute your first code. Screenshot is attached for that.



- Green button is on the left hand side of the main function. If you have written the code without the python main function you can right click on the coding part and choose the option "Run MyFirstProgram". Screenshot is mentioned below for example:



- If your code is executed output/errors will be shown as it is shown in the screenshot below:

