Python Class

#Python Notes

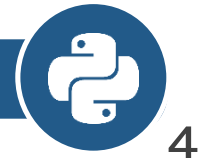
Python Introduction

Python

- Python is a high-level, interpreted, interactive and object-oriented scripting language. Python is designed to be highly readable.
- Python is an object-oriented programming language created by Guido Rossum in 1989.

Features Of Python

- Easy-to-learn
- Easy-to-read
- Easy-to-maintain
- Free and open-source
- Portable
- Extensible and Embeddable
- Object-oriented



Who uses python:

- Python is used by many large organization like Google, NASA, Quora, HortonWorks and many others.

Where python is used?

- GUI application.
- Create Websites.
- Scrape data from website.
- Analyse Data.
- System Administration Task.
- Game Development.

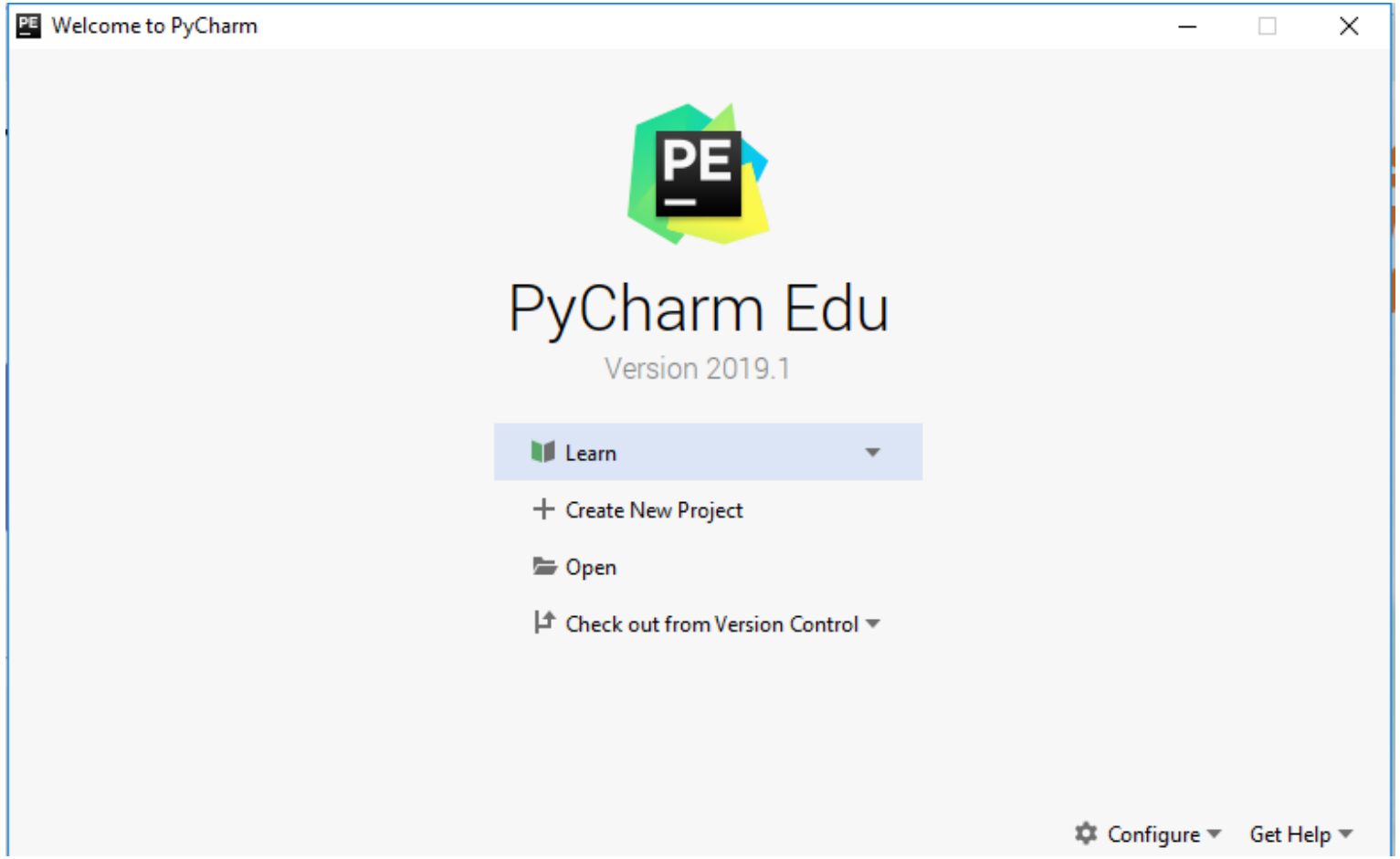
Getting start with python

- To download and install Python visit the official website of Python http://www.python.org/downloads/
- Once the download is complete, run the exe for install Python. Now click on Install Now.
- When it finishes, you can see a screen that says the Setup was successful. Now click on "Close".

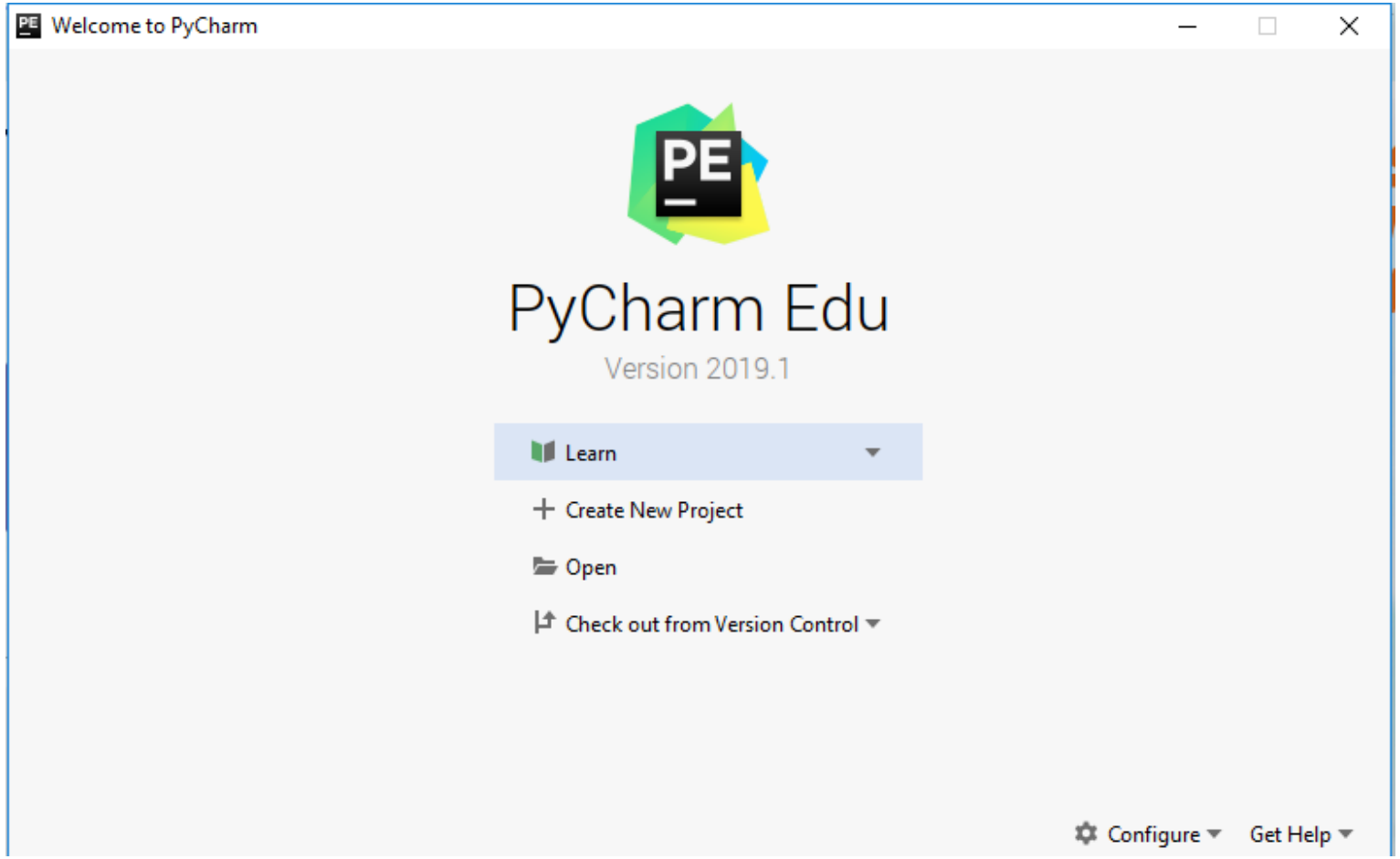
Installing Pycharm

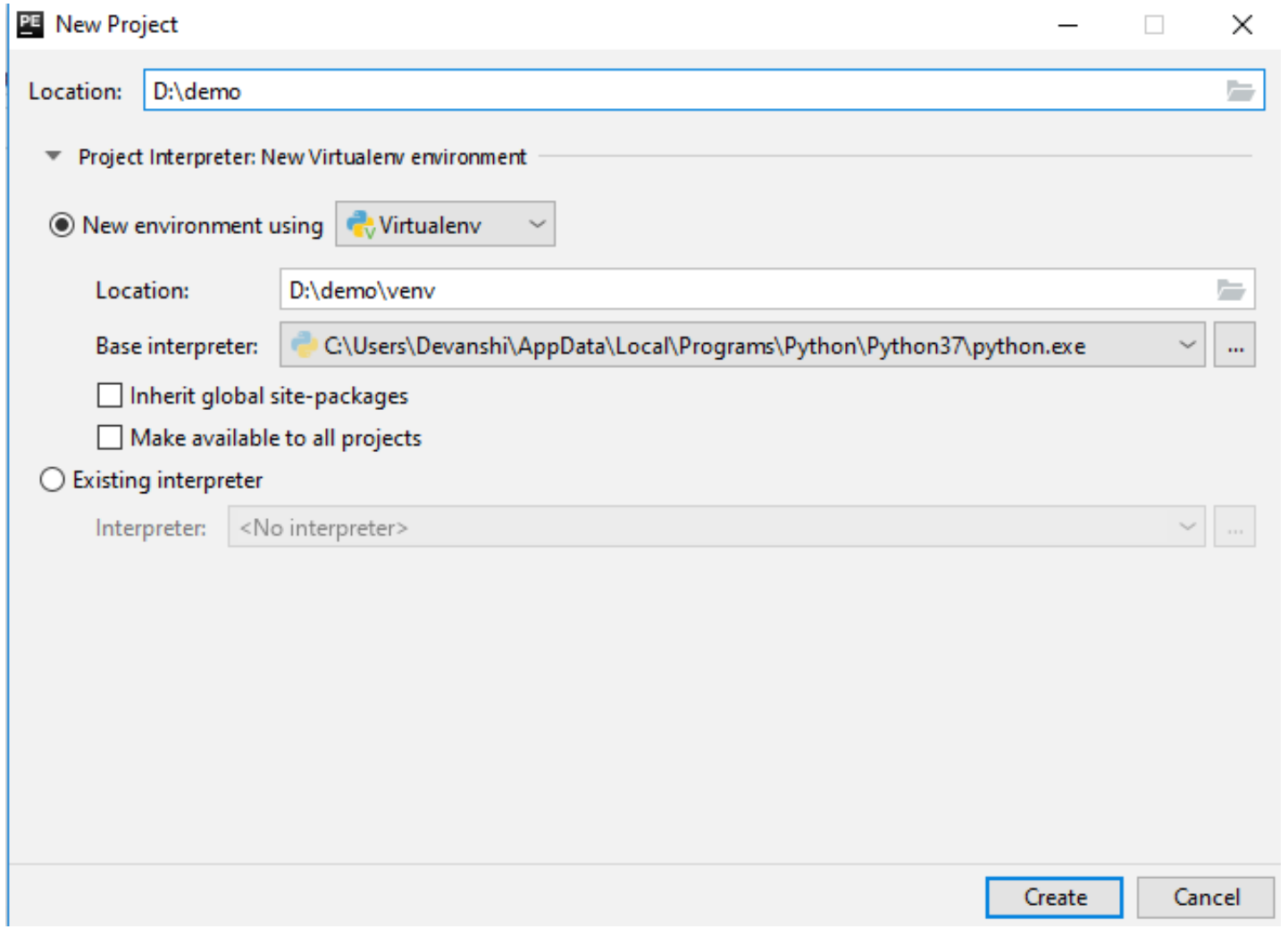
- To download PyCharm visit the website https://www.jetbrains.com/pycharm/download/ and Click the "DOWNLOAD" link under the Community Section.
- Once the download is complete, run the exe for install PyCharm. The setup wizard should have started. Click “Next”.
- On the next screen, Change the installation path if required. Click “Next”.
- On the next screen, you can create a desktop shortcut if you want and click on “Next”.

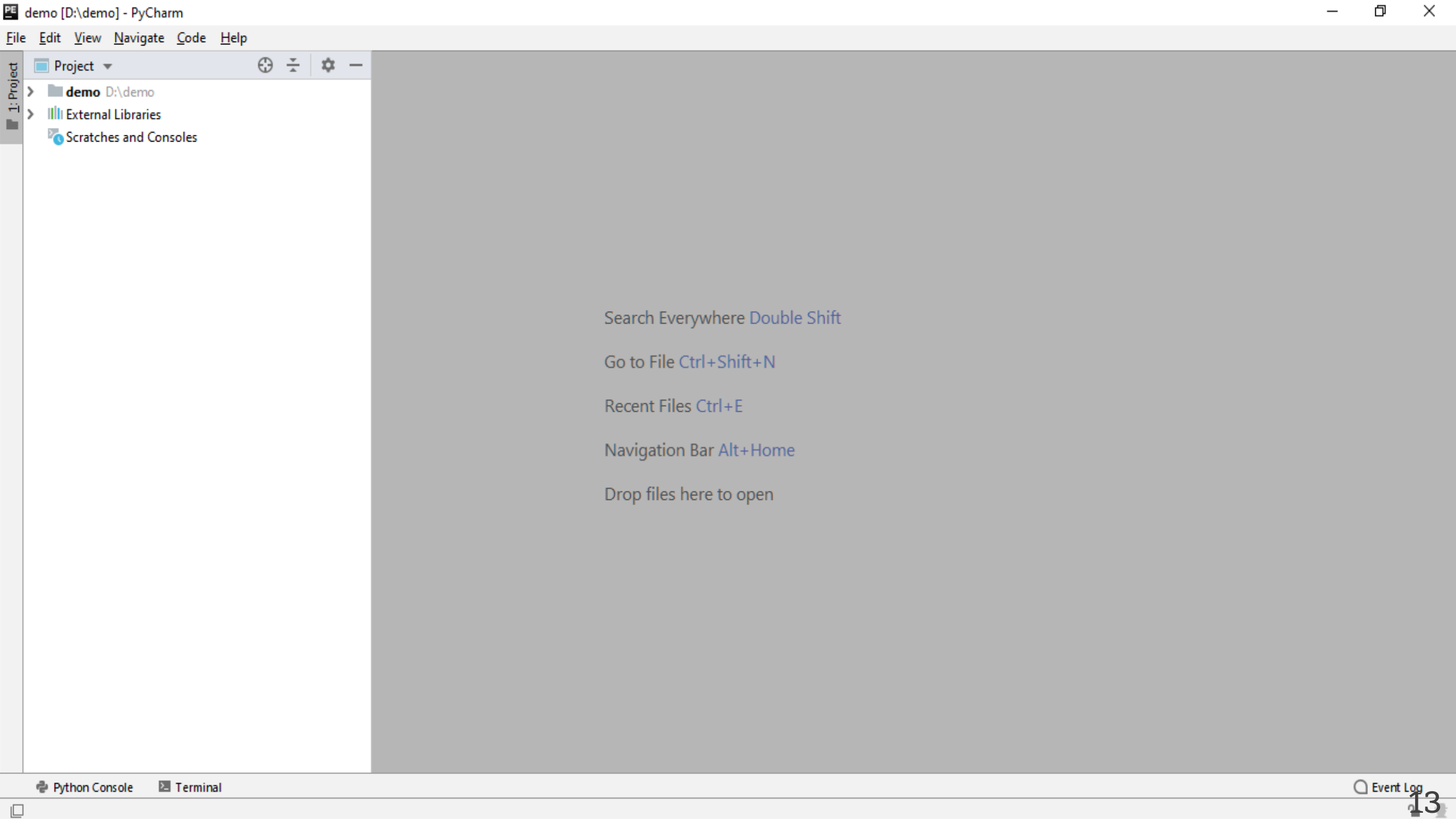
- Choose the start menu folder. Keep selected JetBrains and click on “Install”.
- Wait for the installation to finish.
- Once installation finished, you should receive a message screen that PyCharm is installed. If you want to go ahead and run it, click the “Run PyCharm Community Edition” box first and click “Finish”.
- After you click on "Finish," the Following screen will appear.

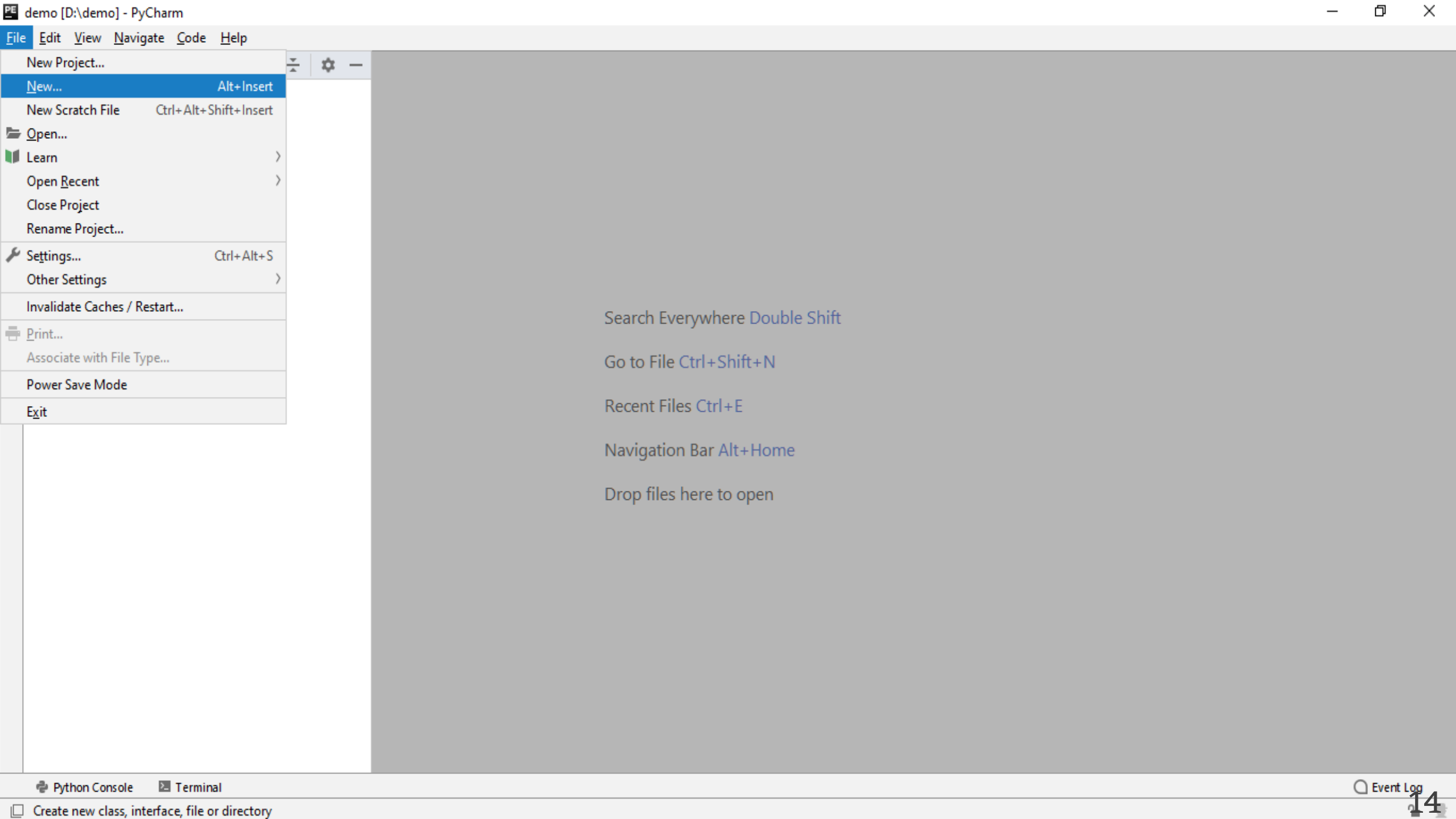

Welcome to PyCharm
PyCharm Edu
Version 2019.1
Learn
Create New Project
Open
Check out from Version Control
Configure
Get Help

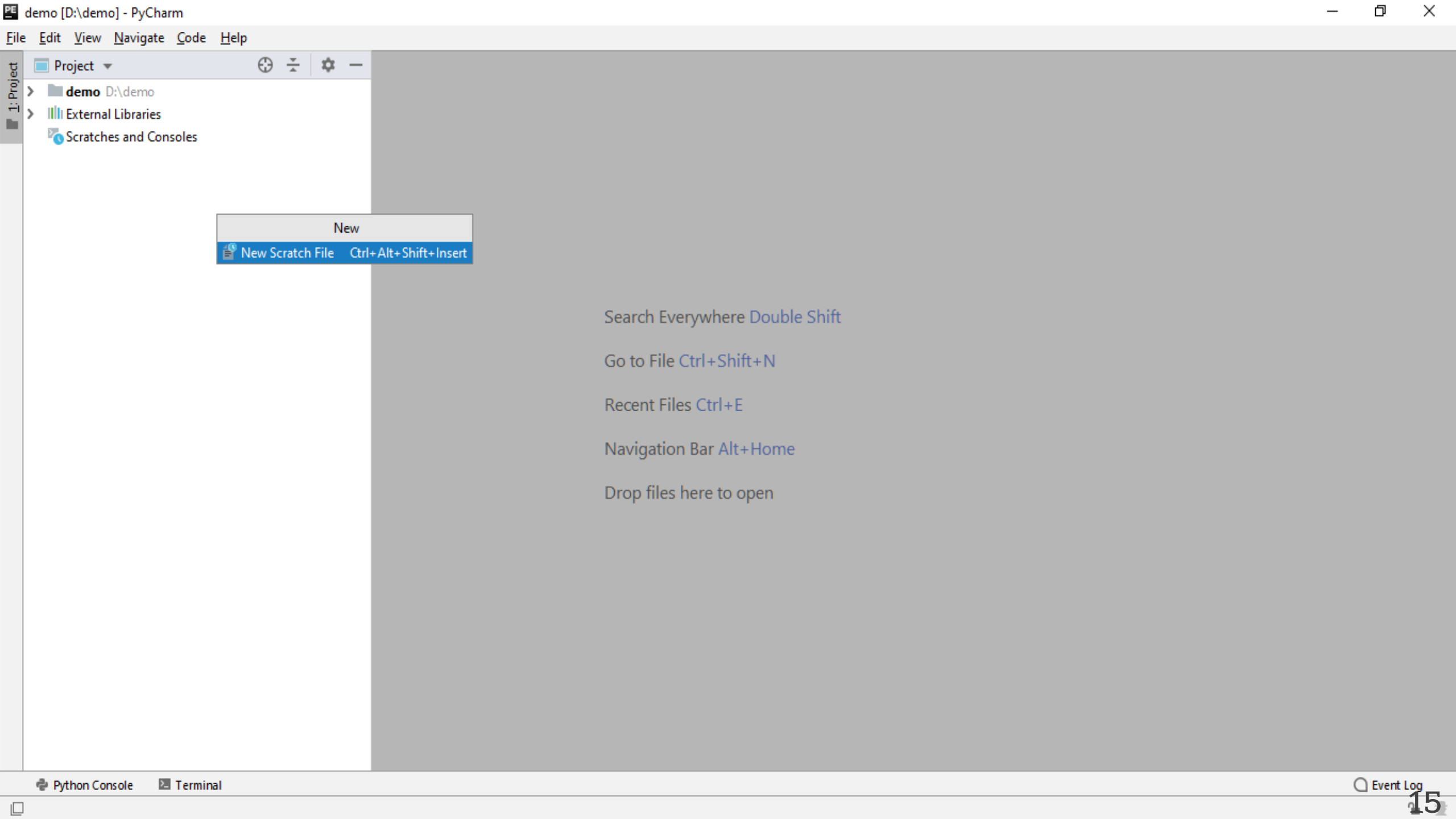
HelloWorld in Python




New Project
Location:
D:\demo
Project Interpreter: New Virtualenv environment
New environment using
Virtualenv
Location:
D:\demo\venv
Base interpreter:
C:\Users\Devanshi\AppData\Local\Programs\Python\Python37\python.exe
Inherit global site-packages
Make available to all projects
Existing interpreter
Interpreter:
<No interpreter>
Create
Cancel


demo [D:\demo] - PyCharm
File Edit View Navigate Code Help
Project
demo D:\demo
External Libraries
Scratches and Consoles
1: Project
Search Everywhere Double Shift
Go to File Ctrl+Shift+N
Recent Files Ctrl+E
Navigation Bar Alt+Home
Drop files here to open
Python Console
Terminal
Event Log


demo [D:\demo] - PyCharm
File Edit View Navigate Code Help
New Project...
New... Alt+Insert
New Scratch File Ctrl+Alt+Shift+Insert
Open...
Learn
Open Recent
Close Project
Rename Project...
Settings... Ctrl+Alt+S
Other Settings
Invalidate Caches / Restart...
Print...
Associate with File Type...
Power Save Mode
Exit
Search Everywhere Double Shift
Go to File Ctrl+Shift+N
Recent Files Ctrl+E
Navigation Bar Alt+Home
Drop files here to open
Python Console
Terminal
Event Log
Create new class, interface, file or directory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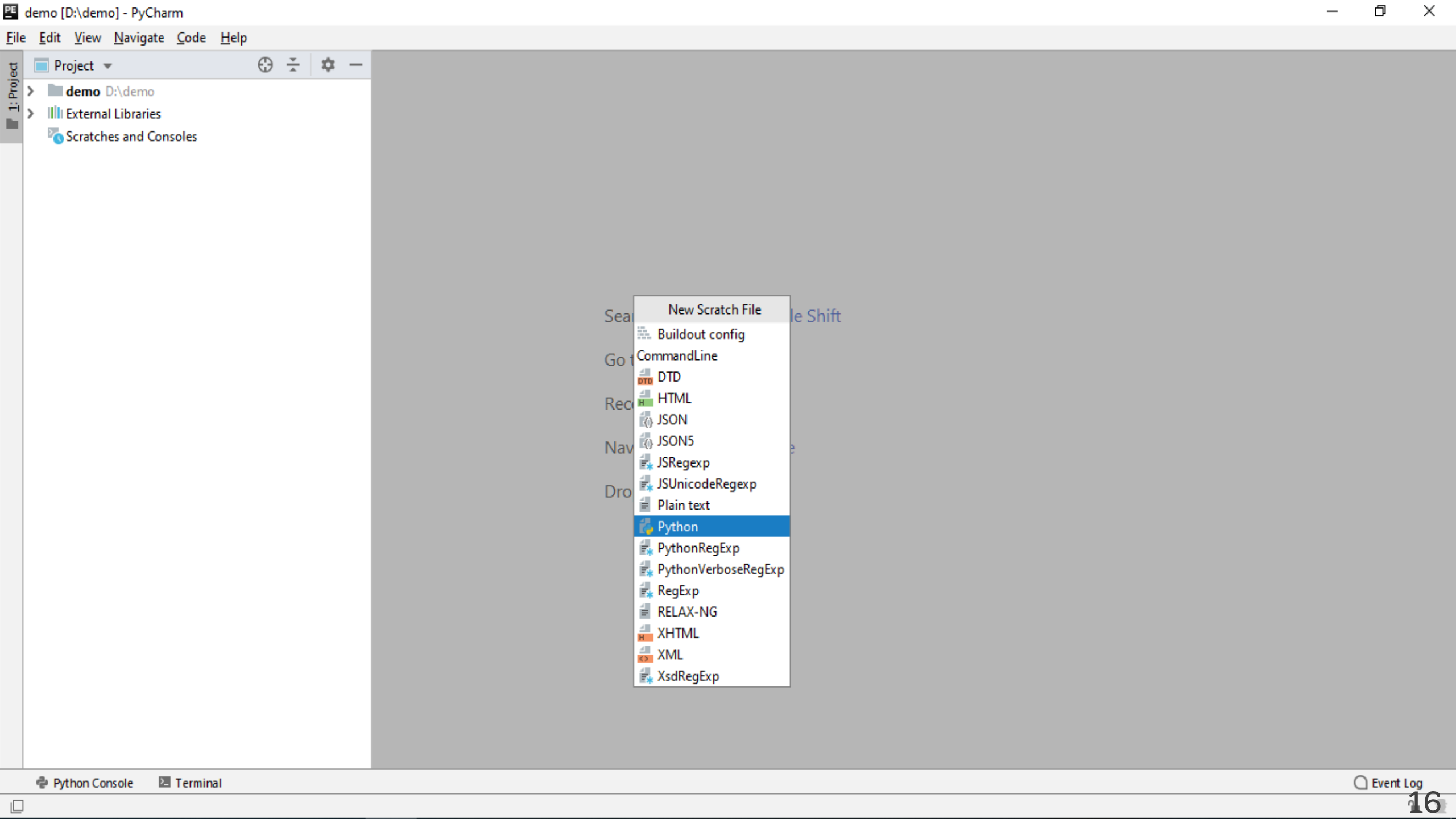
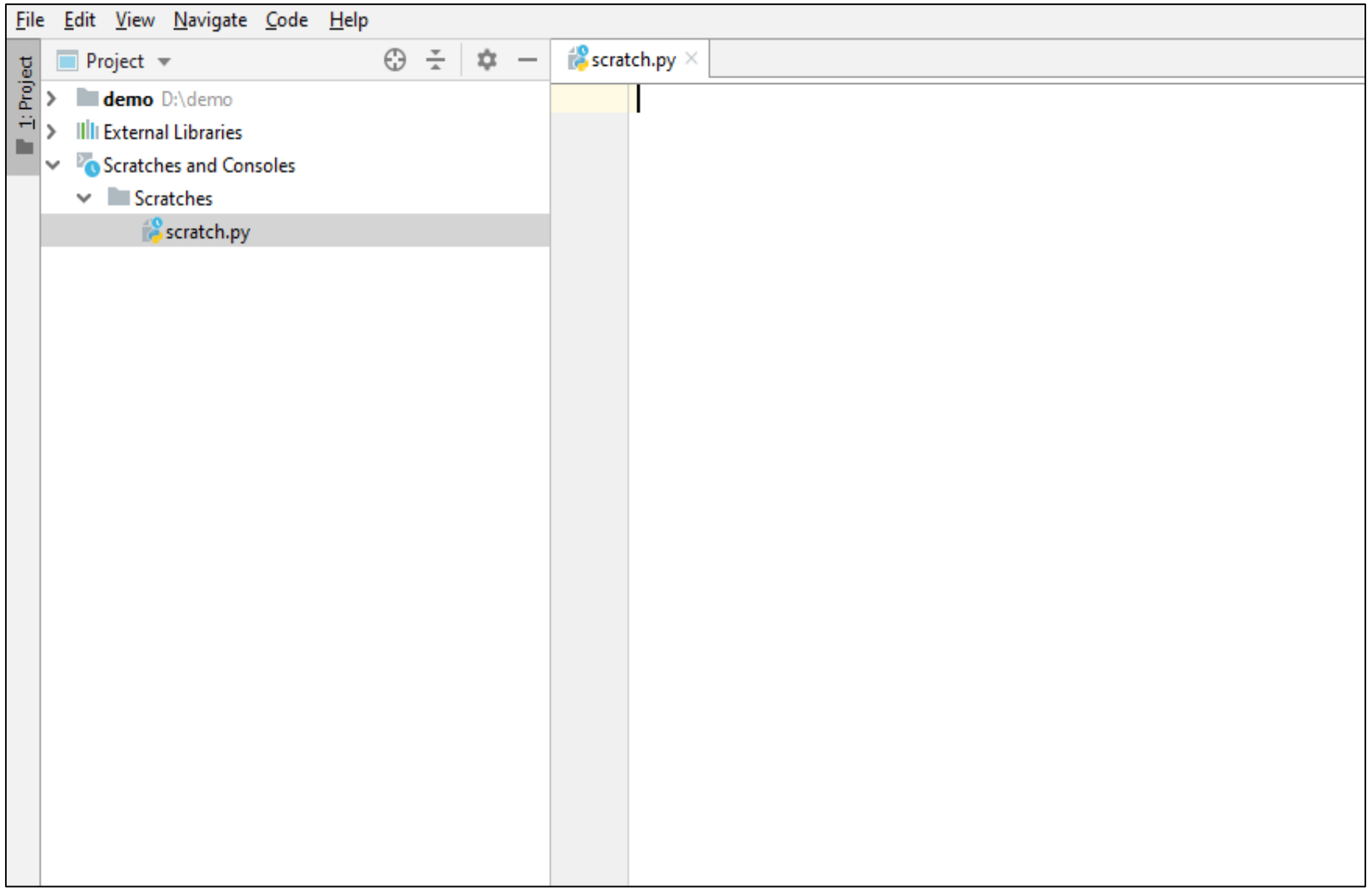
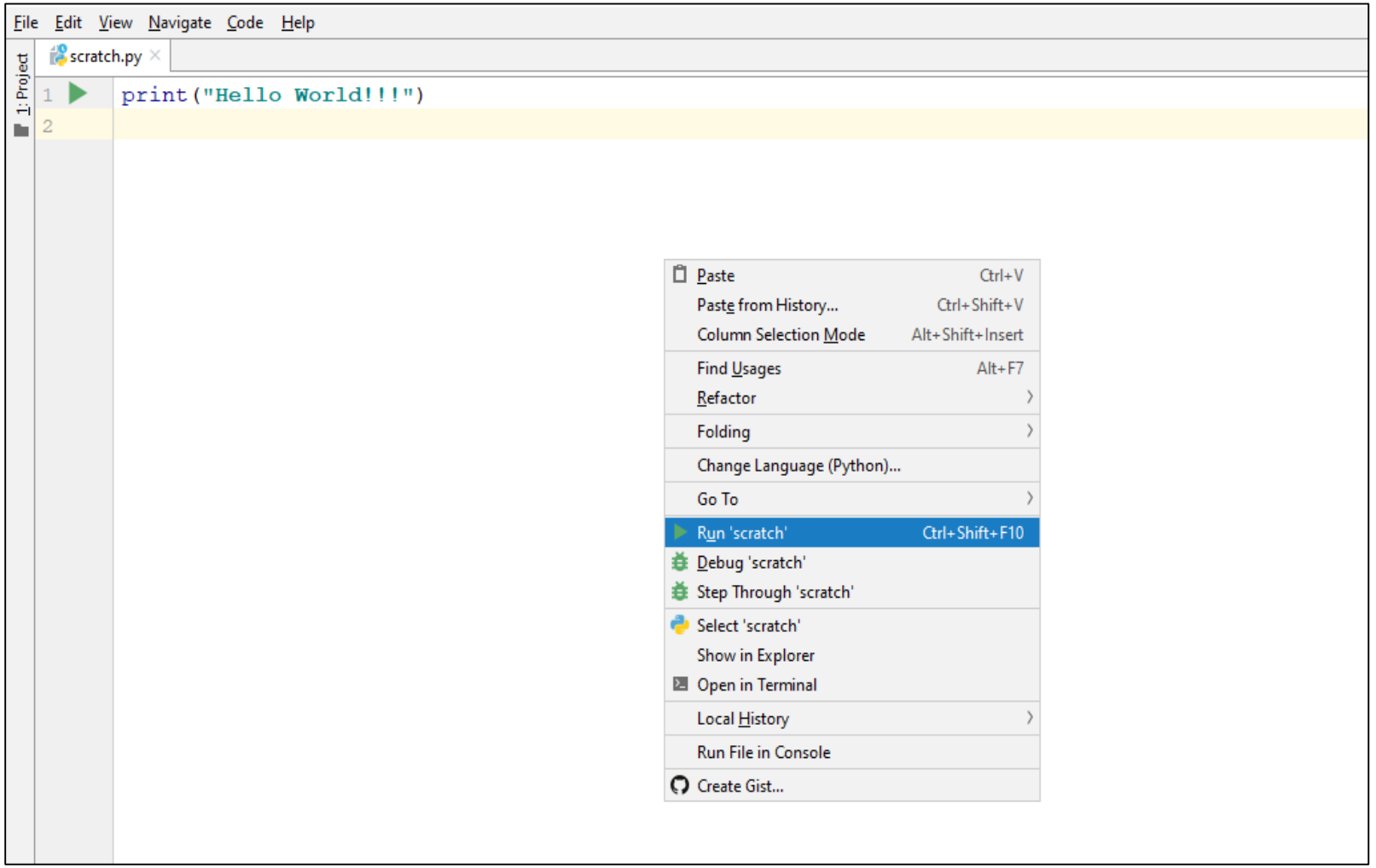
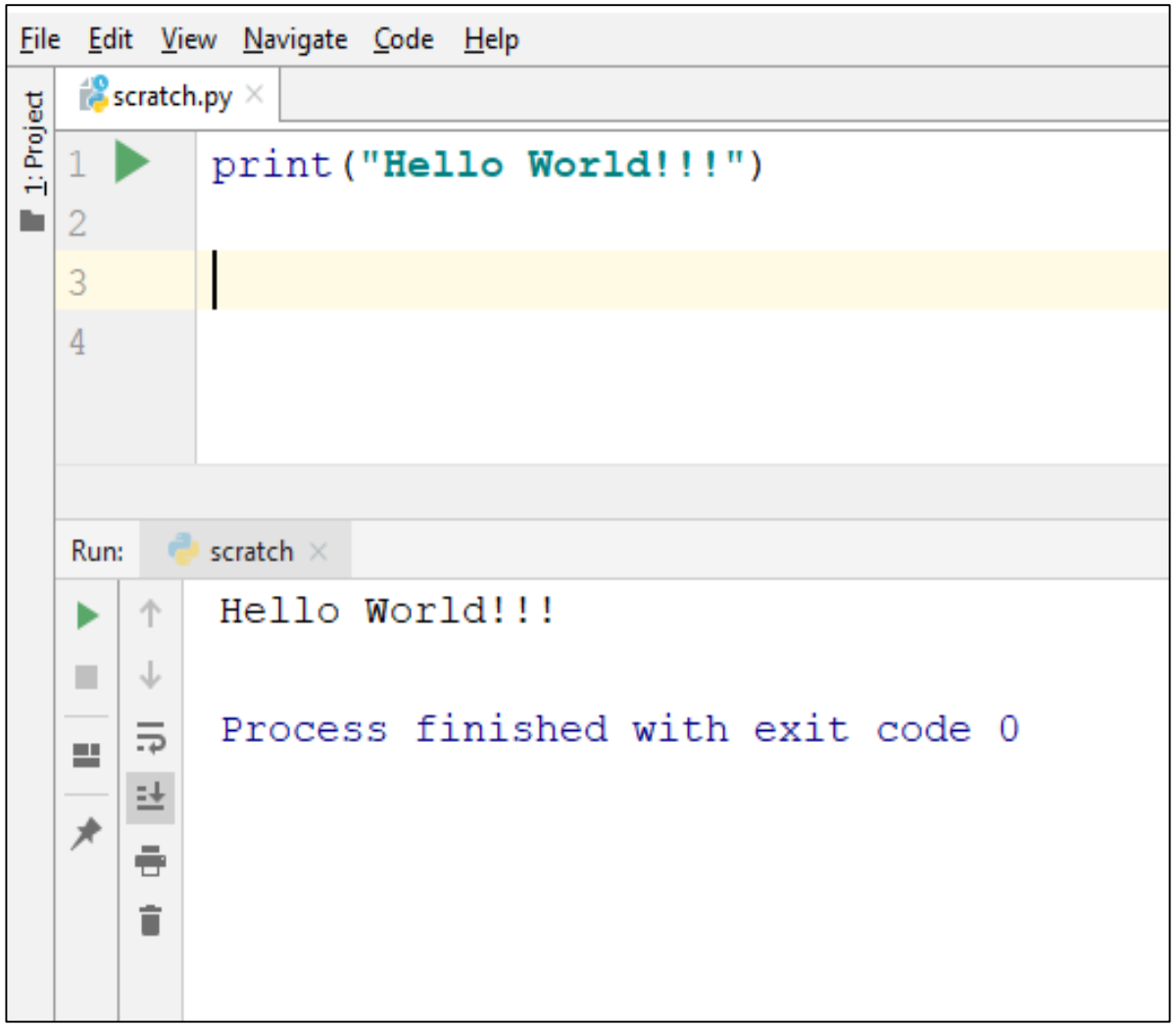

demo [D:\demo] - PyCharm
File Edit View Navigate Code Help
Project
demo D:\demo
External Libraries
Scratches and Consoles
1: Project
New Scratch File
Buildout config
CommandLine
DTD
HTML
JSON
JSON5
JSRegexp
JSUnicodeRegexp
Plain text
Python
PythonRegExp
PythonVerboseRegExp
RegExp
RELAX-NG
XHTML
XML
XsdRegExp
Python Console
Terminal
Event Log


File Edit View Navigate Code Help
1: Project
Project
demo D:\demo
External Libraries
Scratches and Consoles
Scratches
scratch.py
scratch.py

File Edit View Navigate Code Help
1: Project
scratch.py
1
2
print("Hello World!!!")


File Edit View Navigate Code Help
1: Project
scratch.py
1 print("Hello World!!!")
2
Paste Ctrl+V
Paste from History... Ctrl+Shift+V
Column Selection Mode Alt+Shift+Insert
Find Usages Alt+F7
Refactor
Folding
Change Language (Python)...
Go To
Run 'scratch' Ctrl+Shift+F10
Debug 'scratch'
Step Through 'scratch'
Select 'scratch'
Show in Explorer
Open in Terminal
Local History
Run File in Console
Create Gist...


File Edit View Navigate Code Help
1: Project
scratch.py
1 print("Hello World!!!")
2
3
4
Run: scratch
Hello World!!!
Process finished with exit code 0

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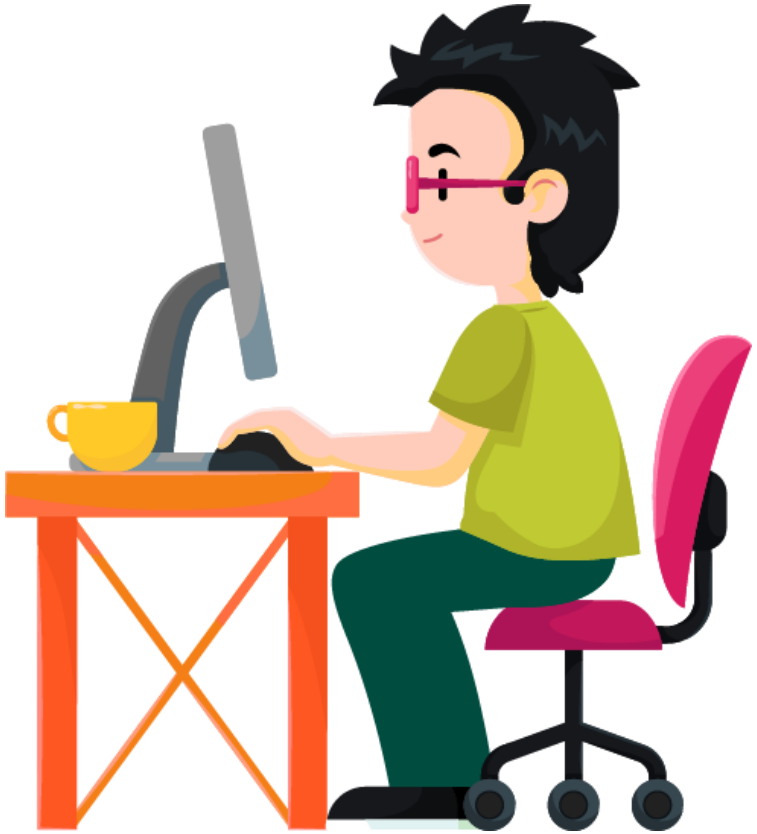

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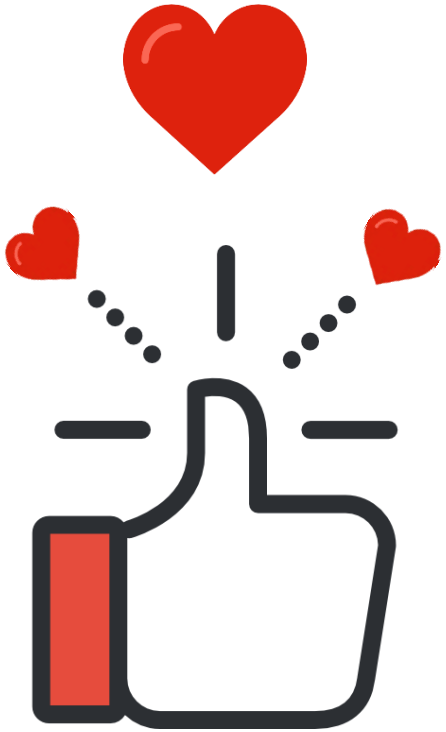

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