10/02/2023, 22:33 StackEdit

#### **Pycharm**



### How do we configure terminal in Pycharm?

- You might have multiple command line interfaces installed on your OS
- We typically use "CMD" on windows.
- File > Settings > Tools > Terminal > Shell PATH > powershell.exe / cmd.exe
- We have to choose "CMD"

#### How do we configure Python interpreter in Pycharm?

File > Settings > Project > Python Interpreter > Base interpreter > Create environment using virtualenv

virtualenv is a one of the tools to create virtual environment (old and popular)

conda - part of anaconda ecosystem (data science)

pipenv - If you have multiple Python versions installed on your system

System Interpreter - base interpreter

## What is the use of requirements.txt?

- Required packages to run the project
- Dependencies for the project
- We specify package names and their specific version in requirements.txt
- pip install -r requirements.txt (single shot installation of all packages)

### **Typing module**

#### **IDE**

• It's an editor dedicated for a particular programming language

# **Function annotation and type annotation**

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10/02/2023, 22:33 StackEdit

• IDEs prompt us usage of function when we hover cursor on function names OR when we type out function names

### **Modules**

- typing (built-in)
- pdb module (built-in)

# **Production system**

· Any system that is being used by our clients

# **Debugging in Python**

- print statements
- breakpoint: We stop code execution at this point
- debugging in python is done using a in-built library called pdb (<a href="https://docs.python.org/3/library/pdb.html">https://docs.python.org/3/library/pdb.html</a>)
- wherever you want to put "breakpoint" you can place following code there.

```
import pdb
pdb.set_trace()
```

How to write above code in single line?

```
import pdb; pdb.set_trace()
```

Again in Python 3.x onwards, we have again a shortcut function called breakpoint()

#### pdb commands

n (next) proceed with execution to the next line in code flow c (continue). proceed with execution until end of the code

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10/02/2023, 22:33 StackEdit

https://stackedit.io/app# 3/3