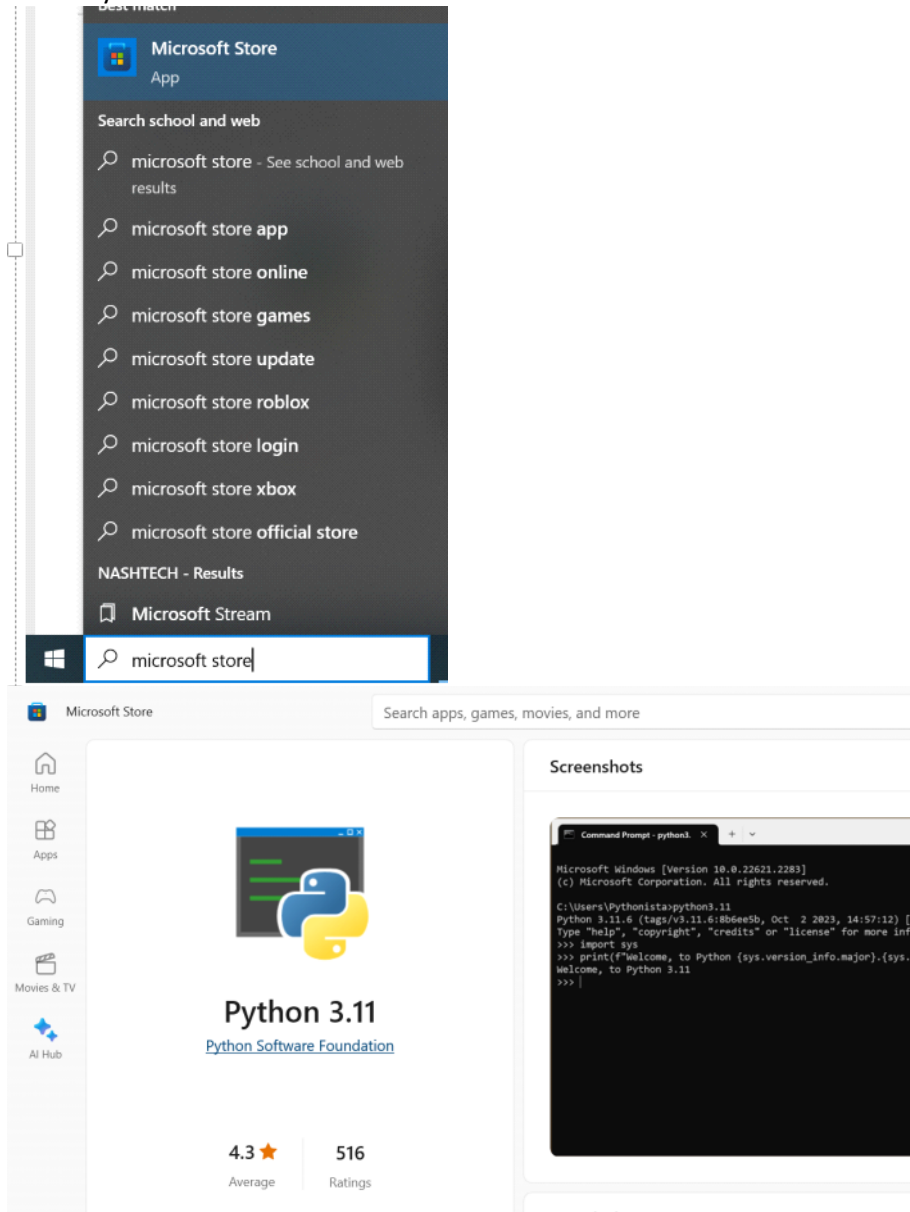# Set up environment

Sunday, December 3, 2023   8:06 PM
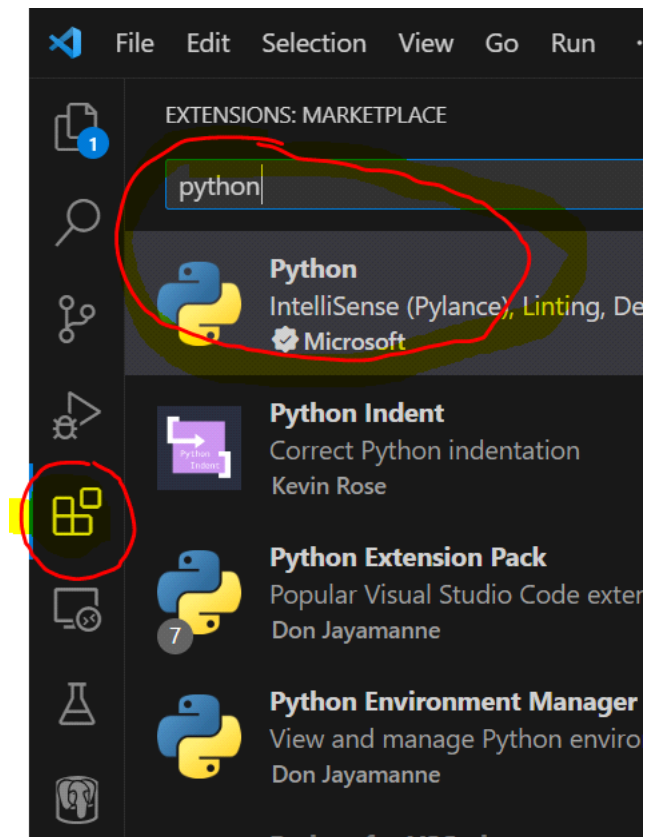
1. Install Python from Microsoft Store

2. Install Visual Studio Code
   Download and install Visual Studio Code from https://code.visualstudio.com/.
3. Install Python extension in visual studio code

EXTENSIONS: MARKETPLACE

python

Python
IntelliSense (Pylance), Linting, De
Microsoft

Python Indent
Correct Python indentation
Kevin Rose

Python Extension Pack
Popular Visual Studio Code exten
Don Jayamanne

7

Python Environment Manager
View and manage Python enviro
Don Jayamanne

To fix running scripts error: Set-ExecutionPolicy -Scope Process -ExecutionPolicy Bypass

To fix error: "
venv\Scripts\Activate.ps1 cannot be loaded because running scripts is disabled on this system
"
Run below command in the terminal
Set-ExecutionPolicy -Scope Process -ExecutionPolicy Bypass

Init Project with virtual environment and the packages

Sunday, December 3, 2023   7:58 PM
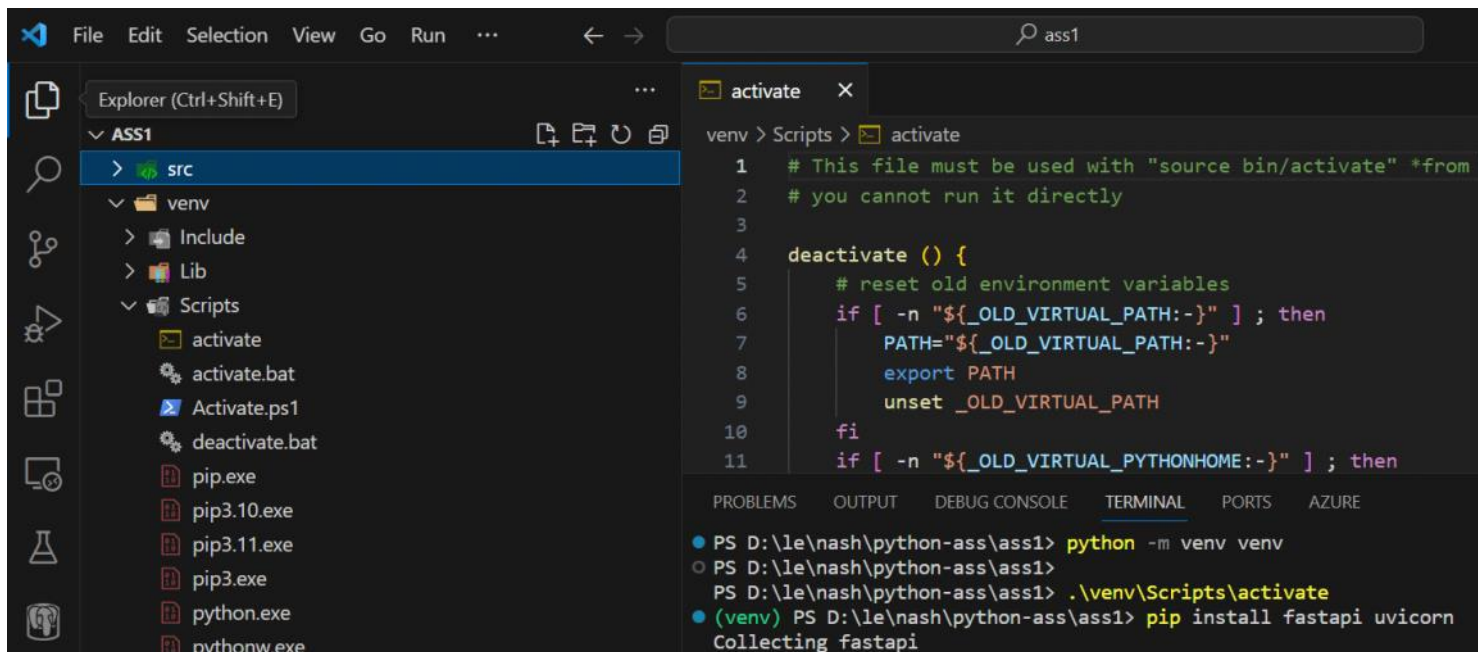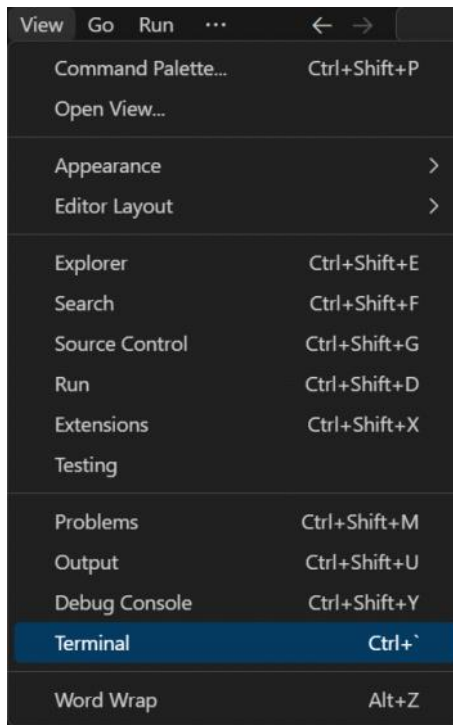
Create an empty folder and open it in Visual Studio Code.
Run below command in Terminal
python -m venv venv

.\venv\Scripts\activate

pip install fastapi uvicorn

Run sample code in src/Main.py

Sunday, December 3, 2023   8:16 PM
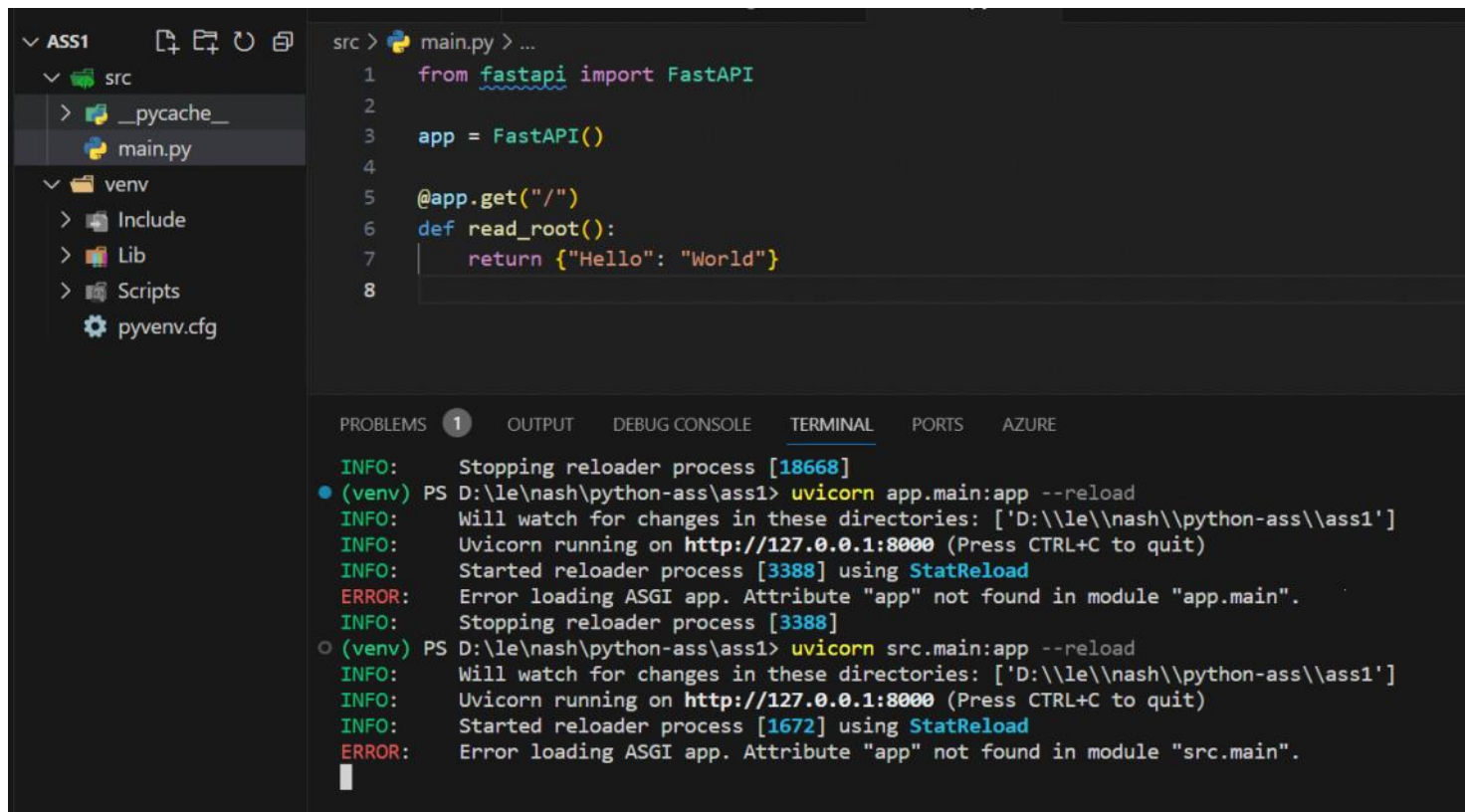
Add **scr** folder and **Main.py** file with below content

from fastapi import FastAPI

app = FastAPI()

@app.get("/")
def read_root():
    return {"Hello": "World"}

Run below command in Terminal, notice on the folder structure src.main
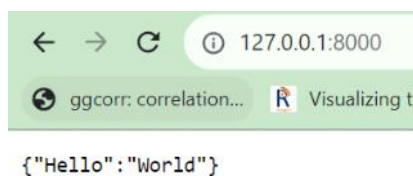uvicorn src.main:app --reload

Uvicorn running on http://127.0.0.1:8000 (Press CTRL+C to quit)

{"Hello":"World"}

Debug

Monday, December 4, 2023   9:18 AM

[Ctrl Shift D to open Run and Debu Run, click Create a lauch.json file](#)
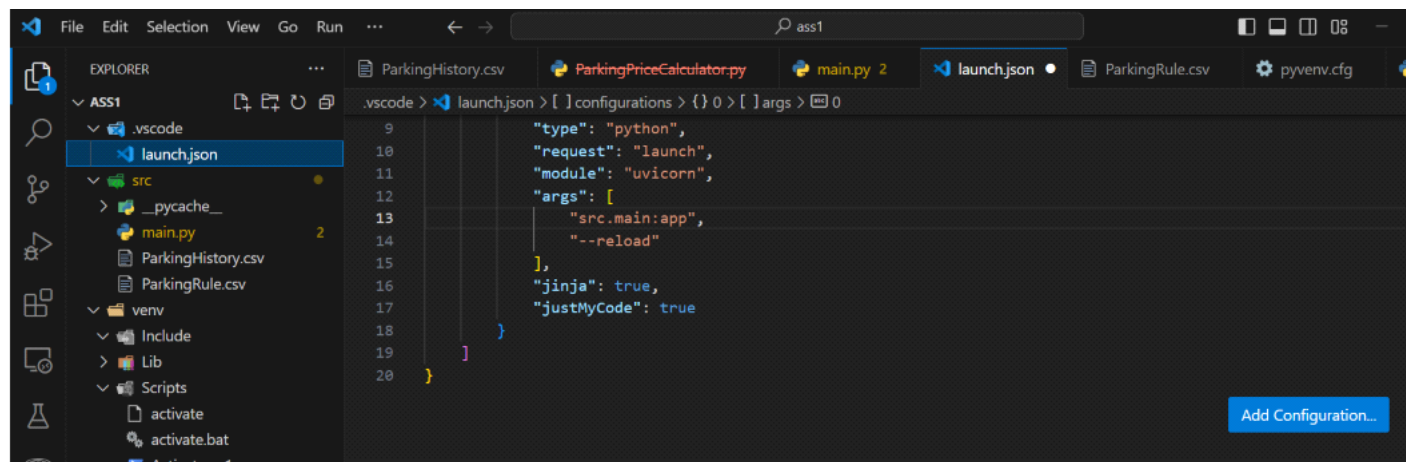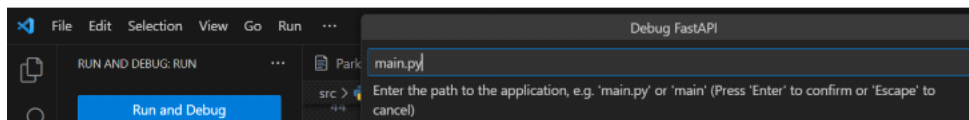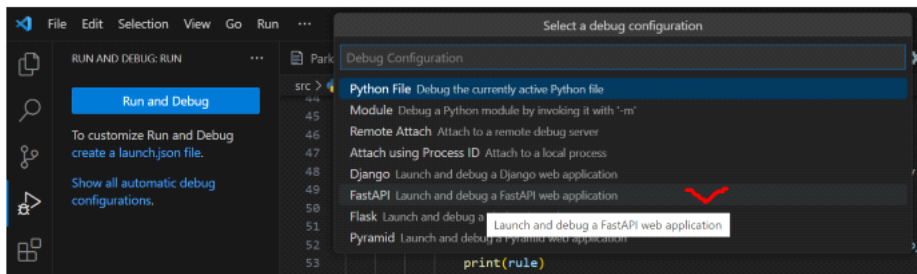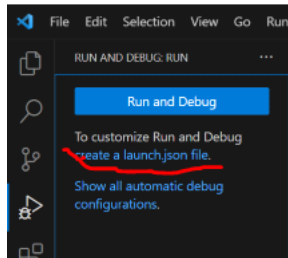
Generated file

```json
{
    // Use IntelliSense to learn about possible attributes.
    // Hover to view descriptions of existing attributes.
    // For more information, visit: https://go.microsoft.com/fwlink/?linkid=
830387
    "version": "0.2.0",
    "configurations": [
        {
```

```
        "name": "Python: FastAPI",
        "type": "python",
        "request": "launch",
        "module": "uvicorn",
        "args": [
            "src.main:app",
            "--reload"
        ],
        "jinja": true,
        "justMyCode": true
    }
  ]
}
```
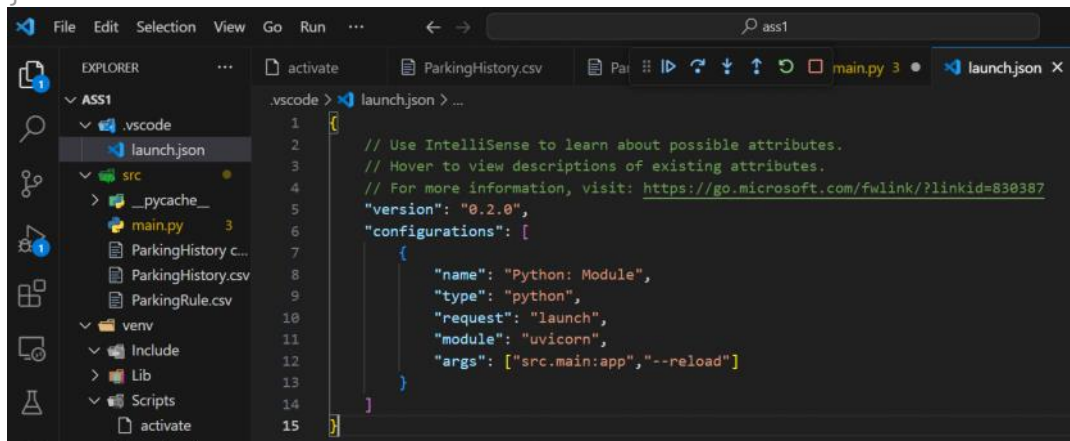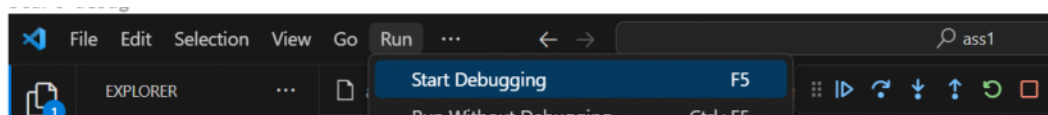
Change config to

```
{
    // Use IntelliSense to learn about possible attributes.
    // Hover to view descriptions of existing attributes.
    // For more information, visit: https://go.microsoft.com/fwlink/?linkid=
830387
    "version": "0.2.0",
    "configurations": [
        {
            "name": "Python: Module",
            "type": "python",
            "request": "launch",
            "module": "uvicorn",
            "args": ["src.main:app","--reload"]
        }
    ]
}
```


Start debug


```
Add breakpoint, and use the debug buttons
```