

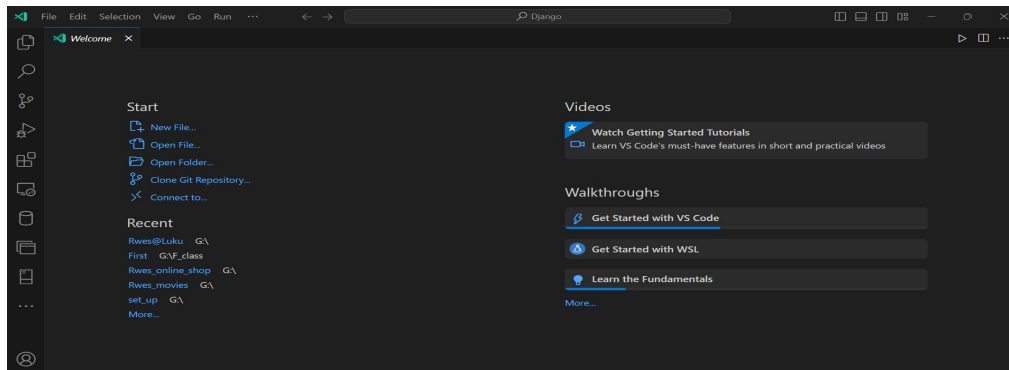
# Development Environment Setup:

## Part one:

### ➤ Step one:-

#### a. Install a Text Editor or Integrated Development Environment (IDE)

- Visit [Visual Studio Code Download](#).
- Download and Install Visual Studio Code.
- Run the installer and follow the setup instructions.



#### b. Set up Version Control System

- i. Visit [Git Download](#).
  - Install Git and configure it on your local machine.
  - Run the installer and follow the setup instructions.
- ii. Visit [GitHub](#) and sign up.
  - Create a GitHub account for hosting your repositories

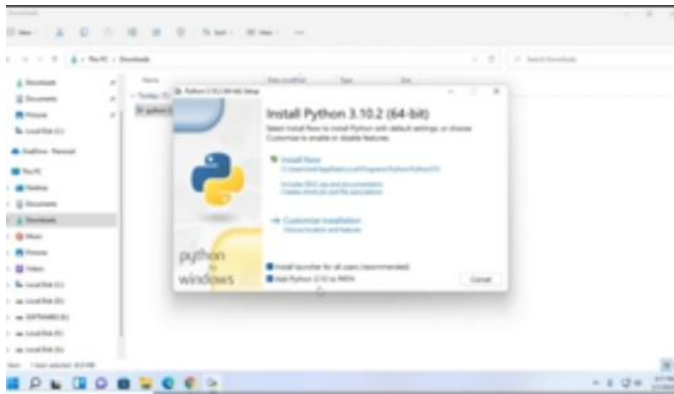
### ➤ Step two:-

#### a. Install Necessary Programming Languages and Runtimes

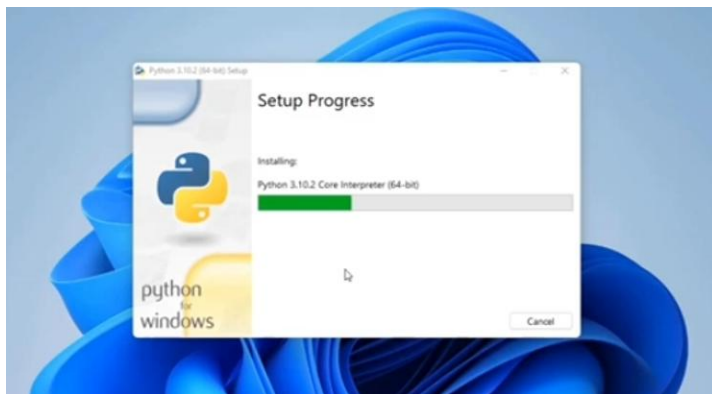
- i. Install Python required for your project.
  - Visit [Python Download](#).



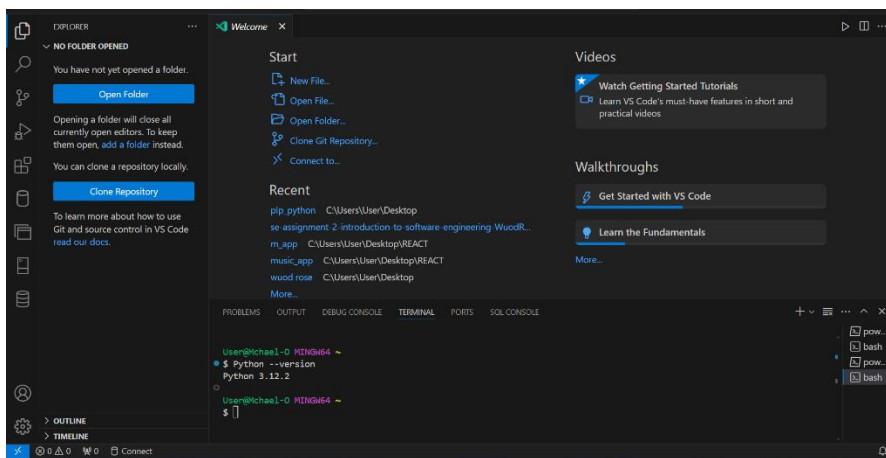
- ii. Download and run the installer. Ensure you check the box to add Python to your PATH.



- iii. Install

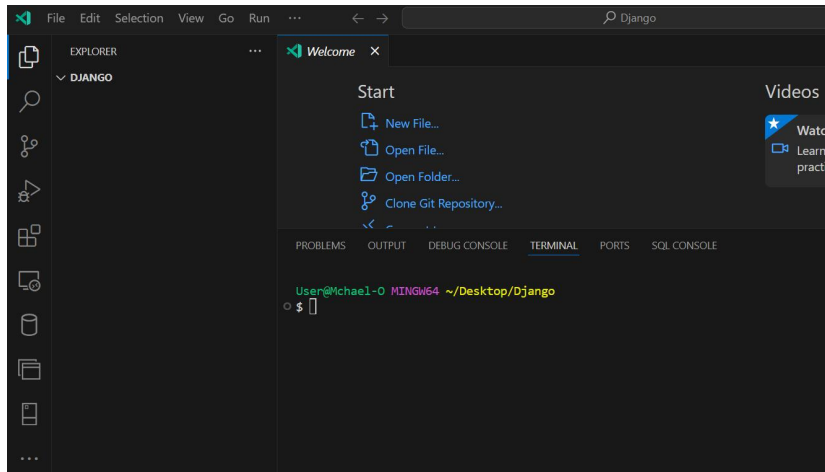


- iv. Verify the installation by running:
- Run the following commands:
    - o Git bash
    - o Python --version



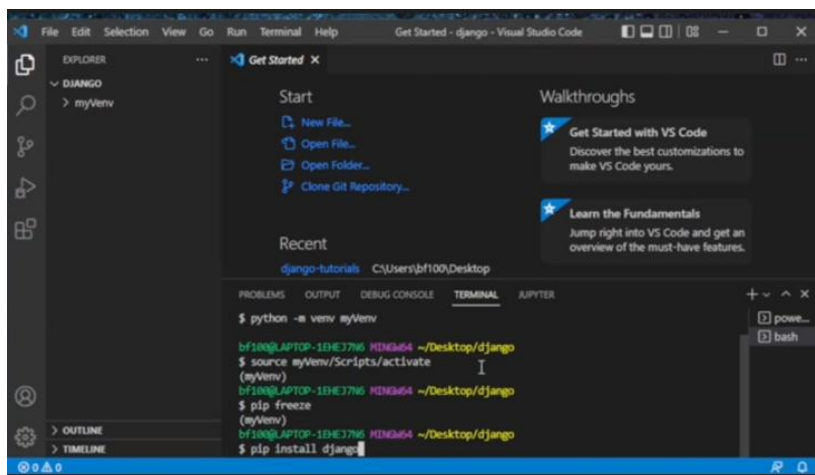
### ➤ Step three:-

- Create a folder on your local machine
- Open it on vs code
- Open the terminal and choose Git Bash



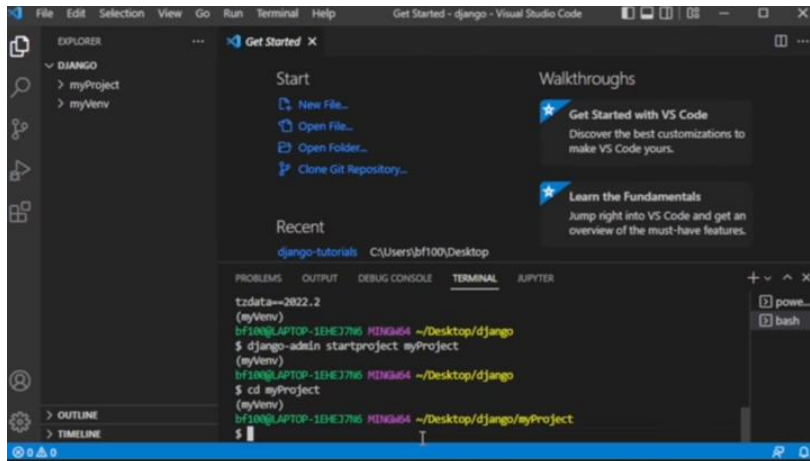
### ➤ Step four:-

- Create a virtual environment for your project  
Command: **python -m virtualenv Myenv** (you can set a name of your choice)
- Activate the virtual environment  
Command: **source Myenv/Scripts/activate**
- Pip freeze –  
Command: **pip freeze**
- Install Django  
Command: **python -m install pip Django**



## ➤ Step five:-

- Starting Django project (set a name of your choice)  
Command: **Django-admin startproject Myproject**
- Moving inside the project  
Command: **cd Myproject**

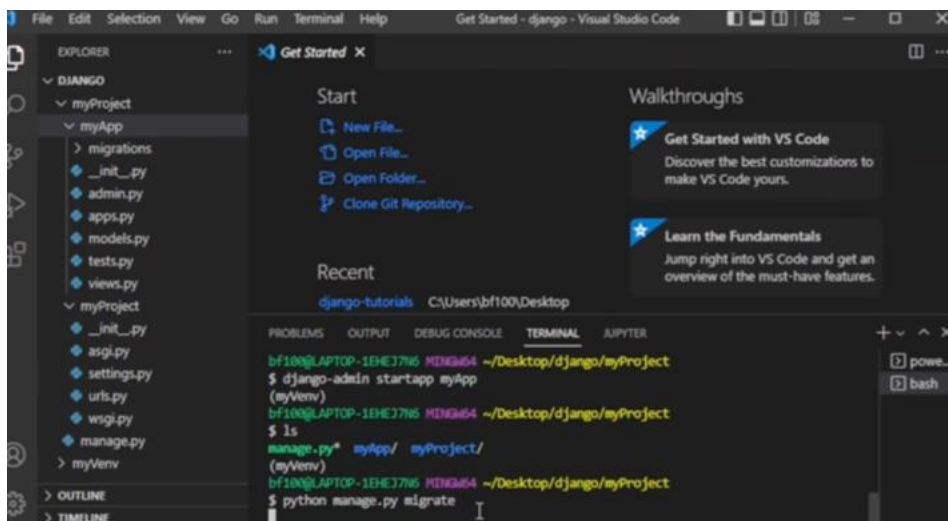


The screenshot shows the Visual Studio Code interface with the Explorer sidebar on the left showing a project structure with 'myProject' and 'myVenv'. The main editor area displays the 'Get Started' page. The terminal at the bottom shows the following commands and output:

```
tzdata=2022.2
(myVenv)
bf100@LAPTOP-1EH37N6 MINGW64 ~/Desktop/django
$ django-admin startproject myProject
(myVenv)
bf100@LAPTOP-1EH37N6 MINGW64 ~/Desktop/django
$ cd myProject
(myVenv)
bf100@LAPTOP-1EH37N6 MINGW64 ~/Desktop/django/myProject
$
```

## ➤ Step six:-

- Start my project app  
Command: **Django-admin startapp MyApp**
- Check the list  
Command: **ls**
- Create database for your project  
Command: **python manage.py migrate**



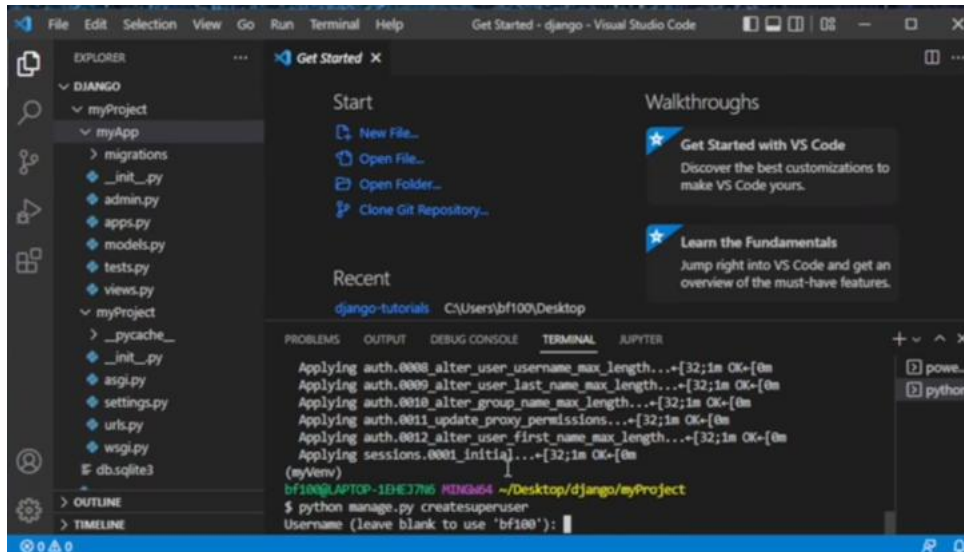
The screenshot shows the Visual Studio Code interface with the Explorer sidebar on the left showing a project structure with 'myProject' and 'myApp'. The main editor area displays the 'Get Started' page. The terminal at the bottom shows the following commands and output:

```
bf100@LAPTOP-1EH37N6 MINGW64 ~/Desktop/django/myProject
$ django-admin startapp myApp
(myVenv)
bf100@LAPTOP-1EH37N6 MINGW64 ~/Desktop/django/myProject
$ ls
manage.py* myApp/ myProject/
(myVenv)
bf100@LAPTOP-1EH37N6 MINGW64 ~/Desktop/django/myProject
$ python manage.py migrate
```

## ➤ Step seven:-

- Create a super user account

Command: **python manage.py createsuperuser**



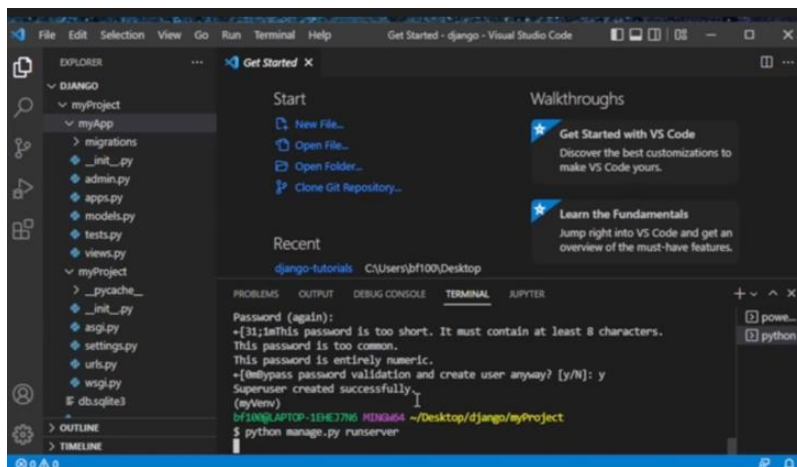
The screenshot shows the Visual Studio Code interface with the Explorer panel on the left displaying the project structure. The main editor area shows the 'Start' and 'Walkthroughs' panels. The Terminal panel at the bottom displays the output of the command `python manage.py createsuperuser`. The output shows the application of migrations and the successful creation of a superuser account.

```
Applying auth.0008_alter_user_username_max_length...[32;1m OK-[0m
Applying auth.0009_alter_user_last_name_max_length...[32;1m OK-[0m
Applying auth.0010_alter_group_name_max_length...[32;1m OK-[0m
Applying auth.0011_update_proxy_permissions...[32;1m OK-[0m
Applying auth.0012_alter_user_first_name_max_length...[32;1m OK-[0m
Applying sessions.0001_initial...[32;1m OK-[0m
(myEnv)
bf100@LAPTOP-1EH377M6 MINGW64 ~/Desktop/django/myProject
$ python manage.py createsuperuser
Username (leave blank to use 'bf100'):
```

## ➤ Step eight:-

- To run the app

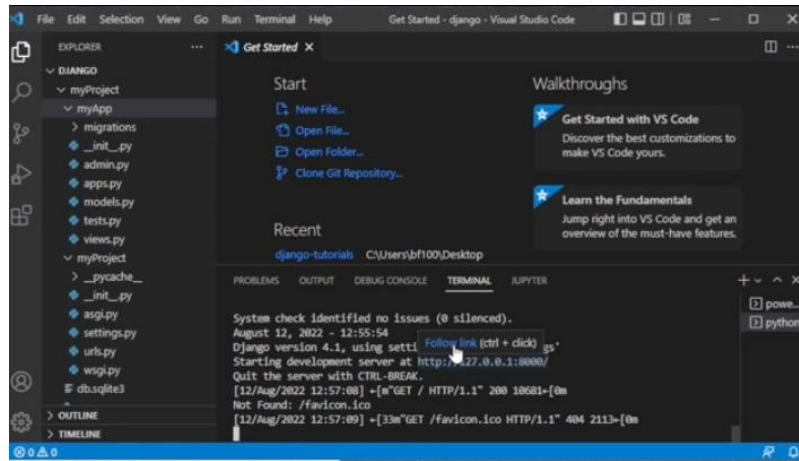
Command: **python manage.py runserver**



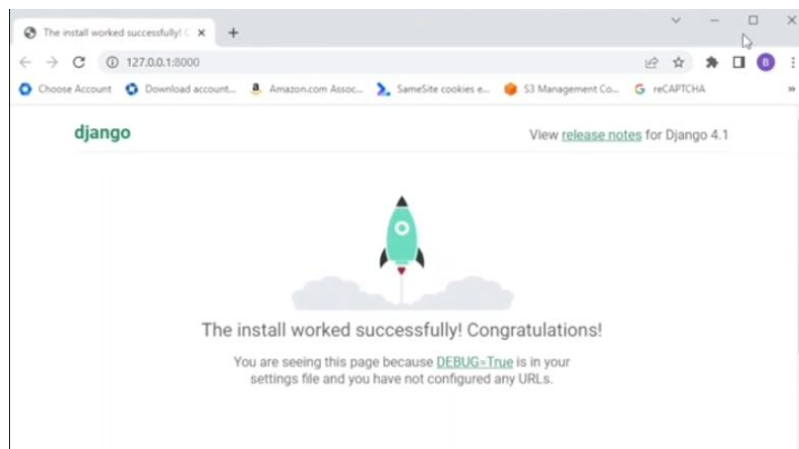
The screenshot shows the Visual Studio Code interface with the Explorer panel on the left displaying the project structure. The main editor area shows the 'Start' and 'Walkthroughs' panels. The Terminal panel at the bottom displays the output of the command `python manage.py runserver`. The output shows the password prompt and the successful creation of a superuser account.

```
Password (again):
-[31;1mThis password is too short. It must contain at least 8 characters.
This password is too common.
This password is entirely numeric.
-[0m(y/N): y
Superuser created successfully.
(myEnv)
bf100@LAPTOP-1EH377M6 MINGW64 ~/Desktop/django/myProject
$ python manage.py runserver
```

- Open the git bash on the terminal the ru the myapp by {python manage.py runserver}

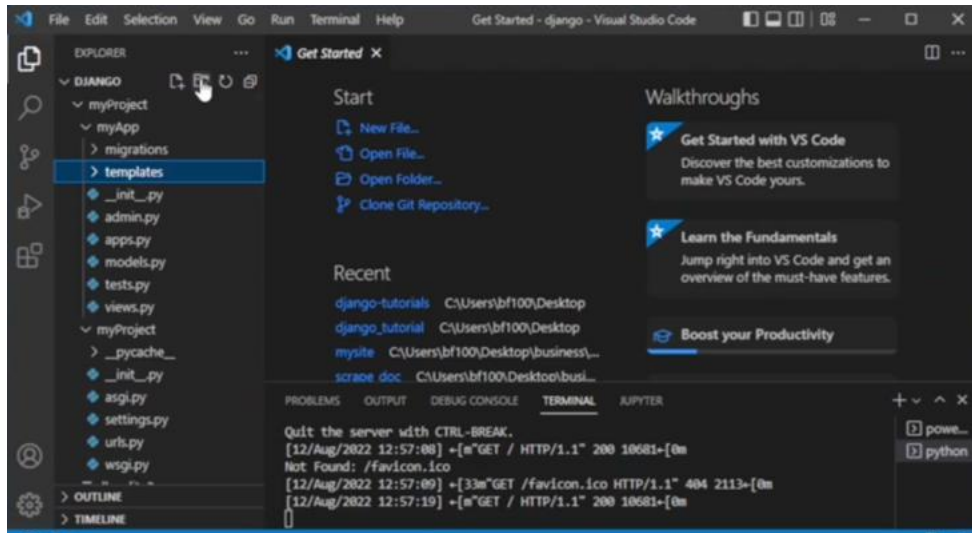


- Successful installation of Django

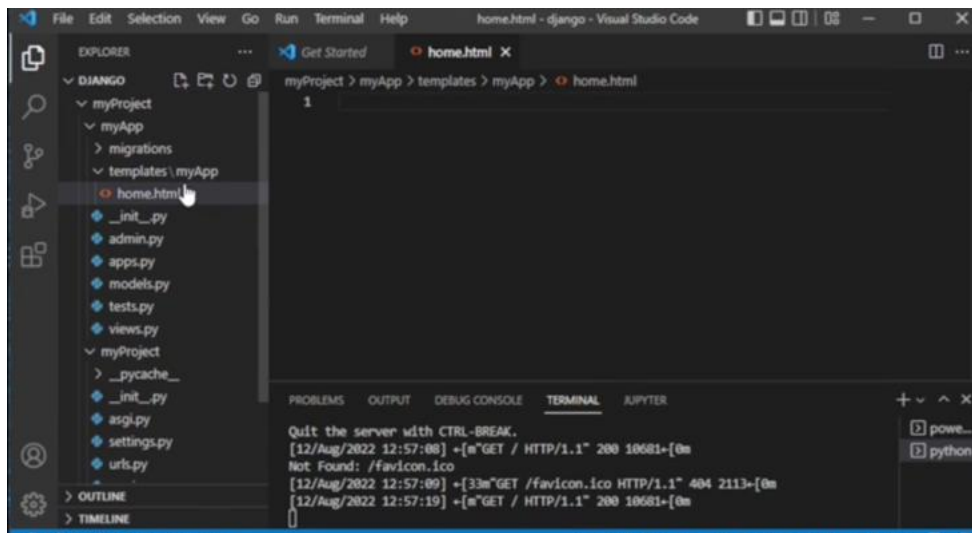


## PART TWO

- Create a new folder and name it **template**

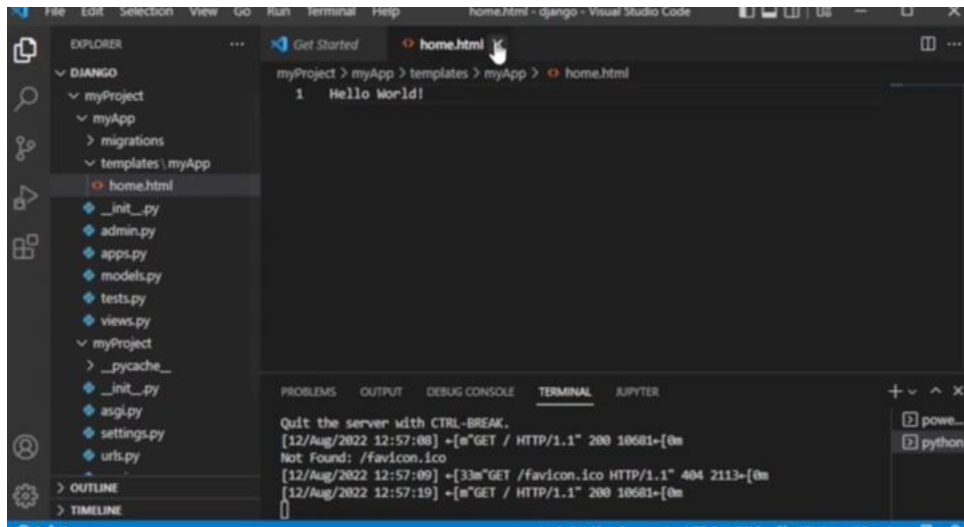


- Highlight the folder template and add new folder {give it the same name as your app} Myapp
- Highlight the folder {template\Myapp} and add new file name it {product\_list.html}





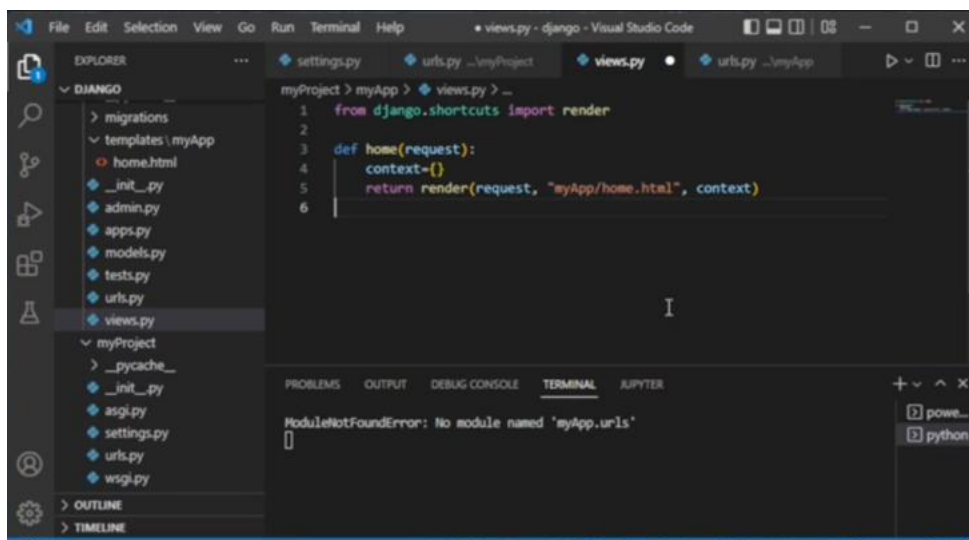
- Open the html file {then write your code }



```
myProject > myApp > templates > myApp > home.html
1 Hello World!
```

```
Quit the server with CTRL-BREAK.
[12/Aug/2022 12:57:00] +["m"GET / HTTP/1.1" 200 10681-[0m
Not Found: /favicon.ico
[12/Aug/2022 12:57:00] +["m"GET /favicon.ico HTTP/1.1" 404 2113-[0m
[12/Aug/2022 12:57:19] +["m"GET / HTTP/1.1" 200 10681-[0m
```

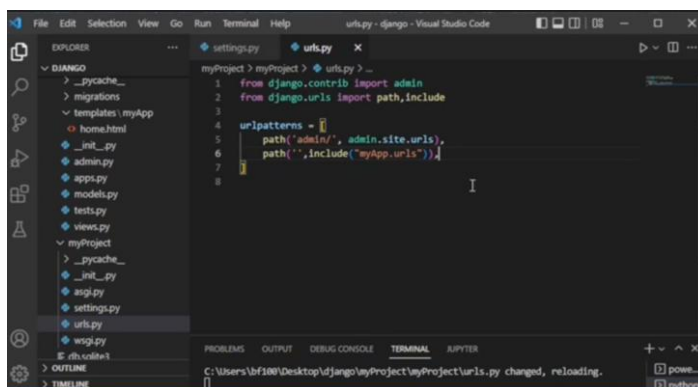
- Open view.py file and edit it to look like this



```
myProject > myApp > views.py > ...
1 from django.shortcuts import render
2
3 def home(request):
4     context={}
5     return render(request, "myApp/home.html", context)
6
```

```
ModuleNotFoundError: No module named 'myApp.urls'
```

- Open urls.py {myproject} file and edit to look like this

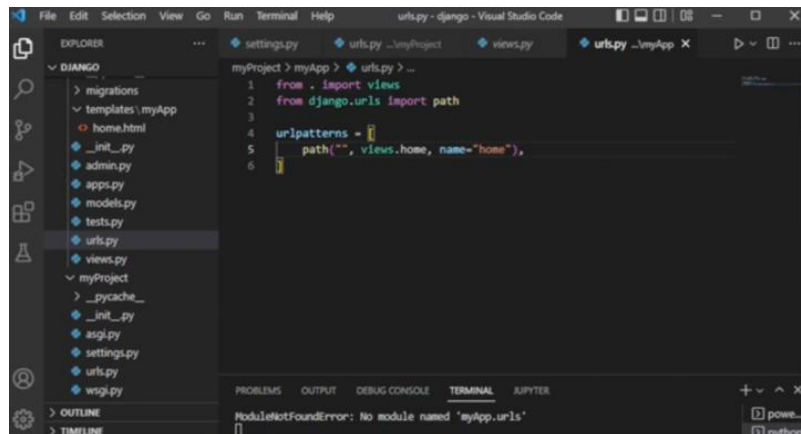


```
myProject > myProject > urls.py > ...
1 from django.contrib import admin
2 from django.urls import path, include
3
4 urlpatterns = [
5     path('admin/', admin.site.urls),
6     path('', include("myApp.urls"))]
7
8
```

```
C:\Users\bf100\Desktop\django\myProject\myProject\urls.py changed, reloading.
```



- Create a urls.py file on {myapp}



- Go back to Git Bash terminal { python manage.py runserver }
- To run the app
- Open it to the browsers

