**DJANGO**

**1. Install of Python**

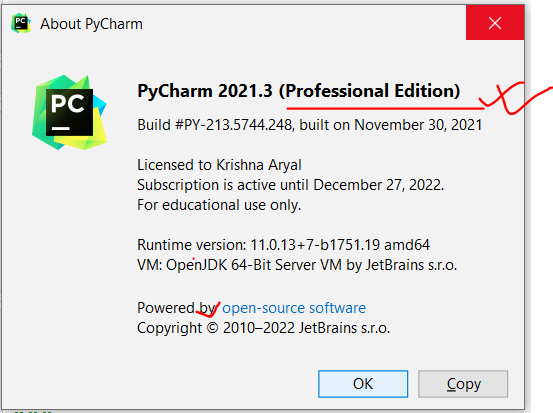
https://www.python.org/downloads/

**2. Installation of PyCharm**

https://www.jetbrains.com/pycharm/download/#section=windows

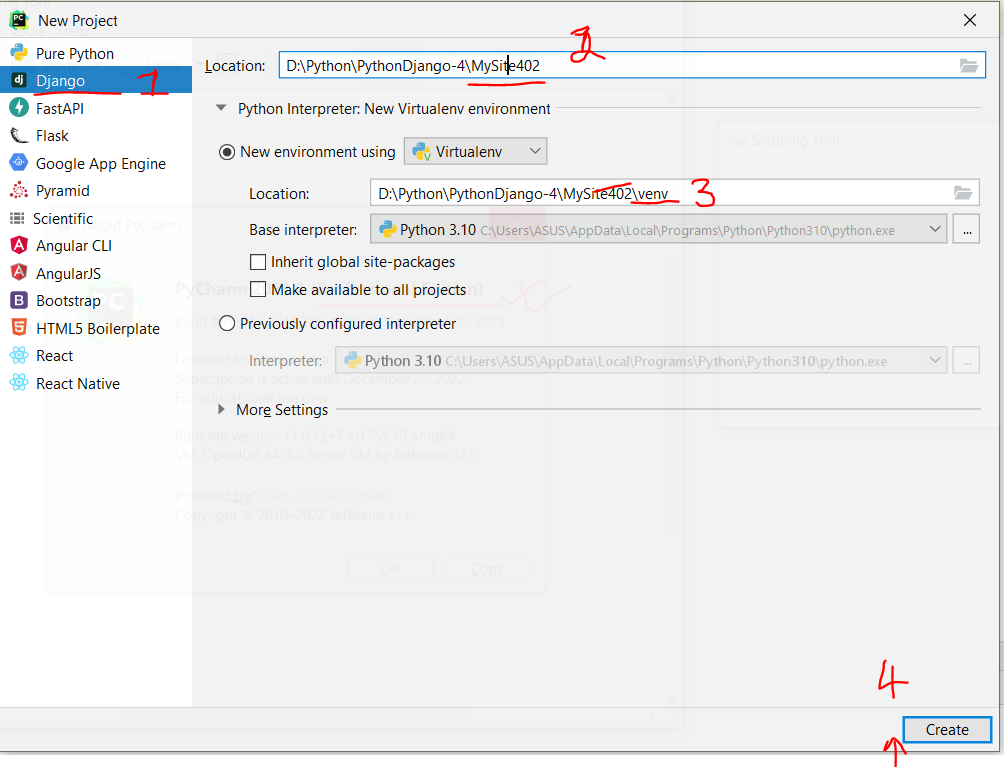
# IDE: PyCharm

# Help (Menu) -> **About**



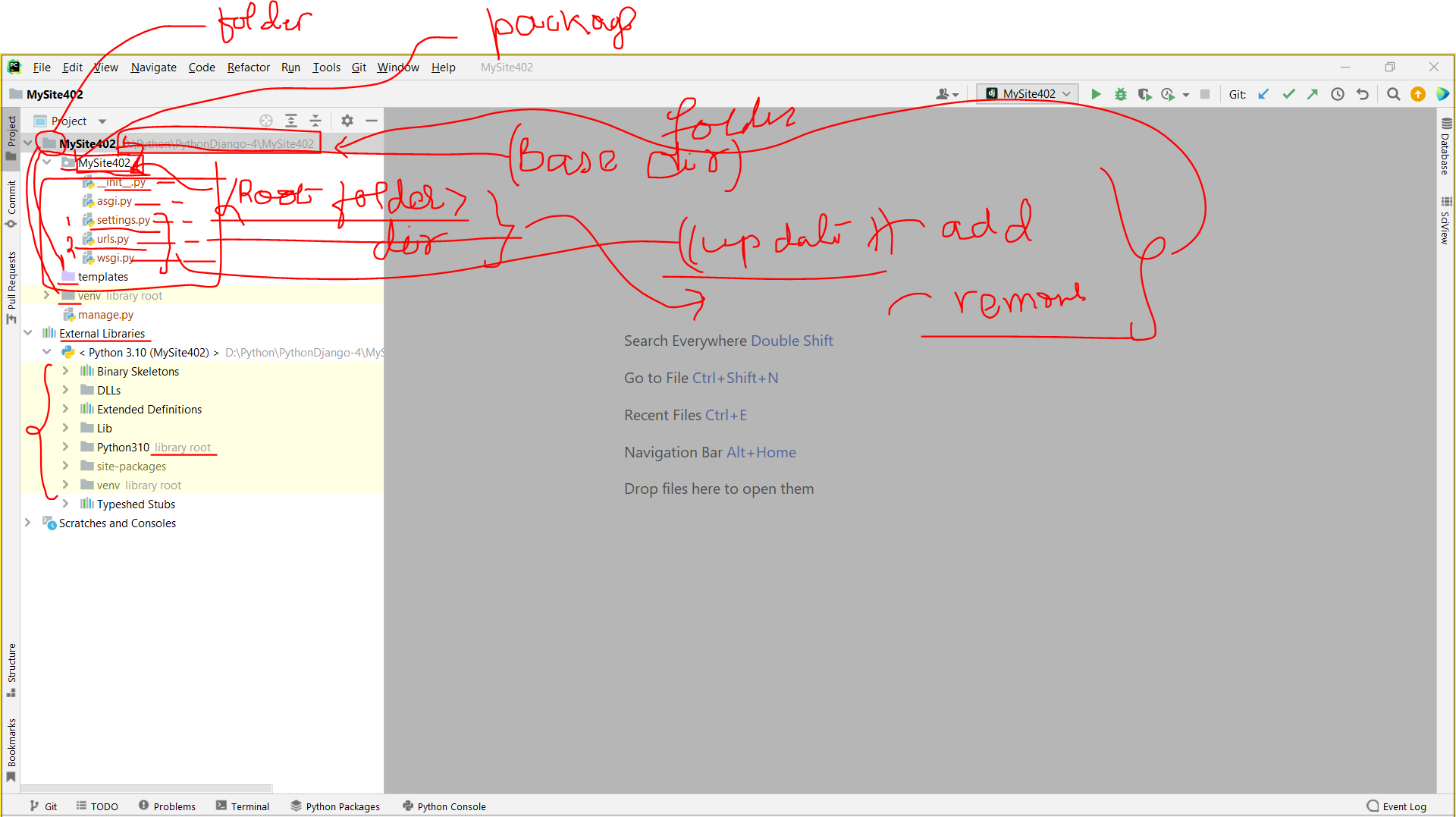
**3. Creating new Project (Django Project -> Website)**

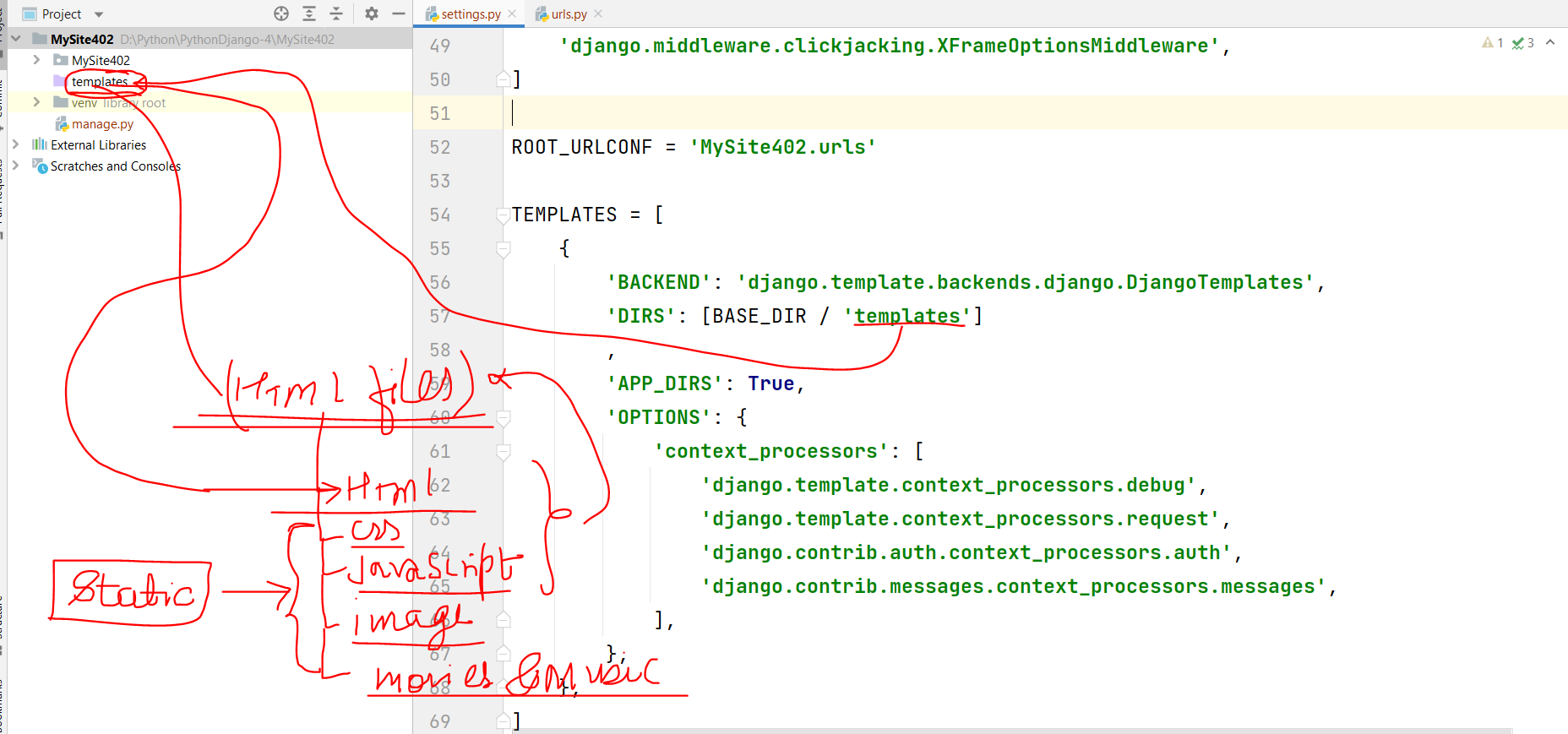
* **File** (Menu) > **New Project**



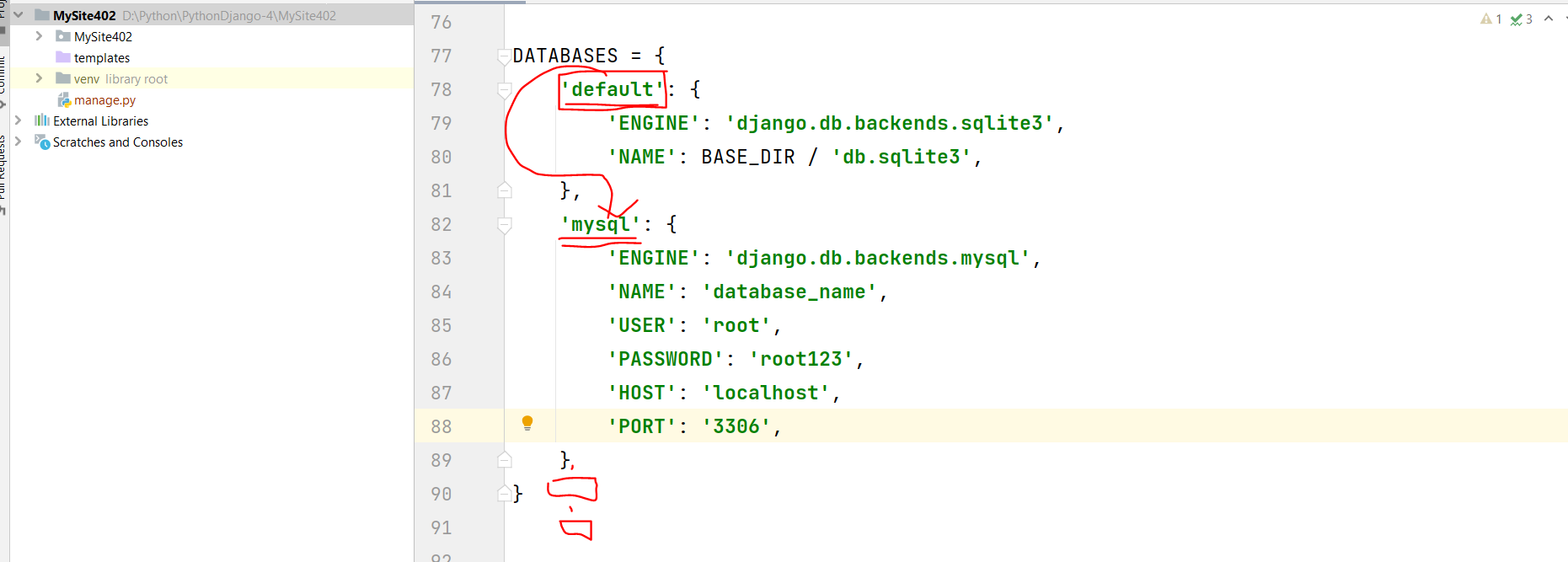
* Click on **Create** button

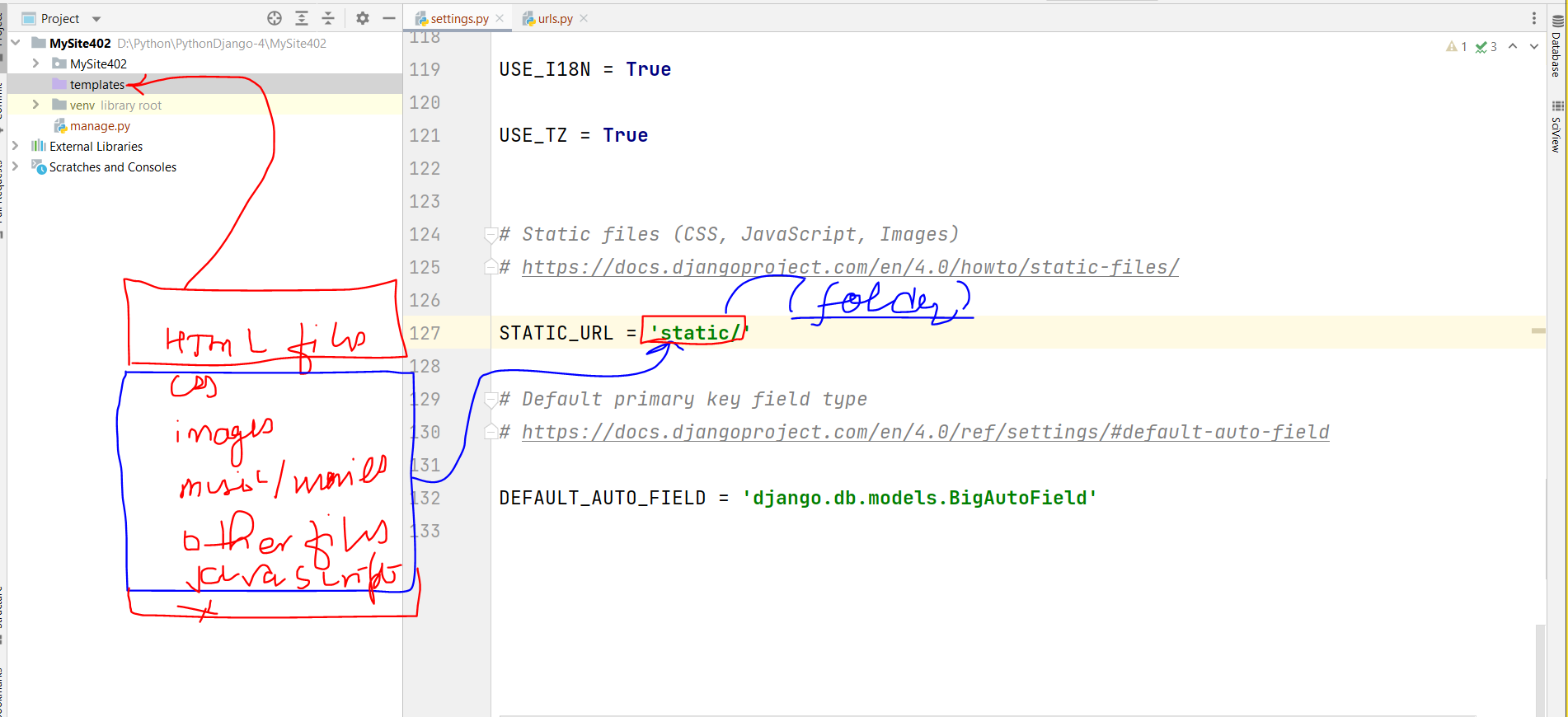
**4. Explore Django Project**

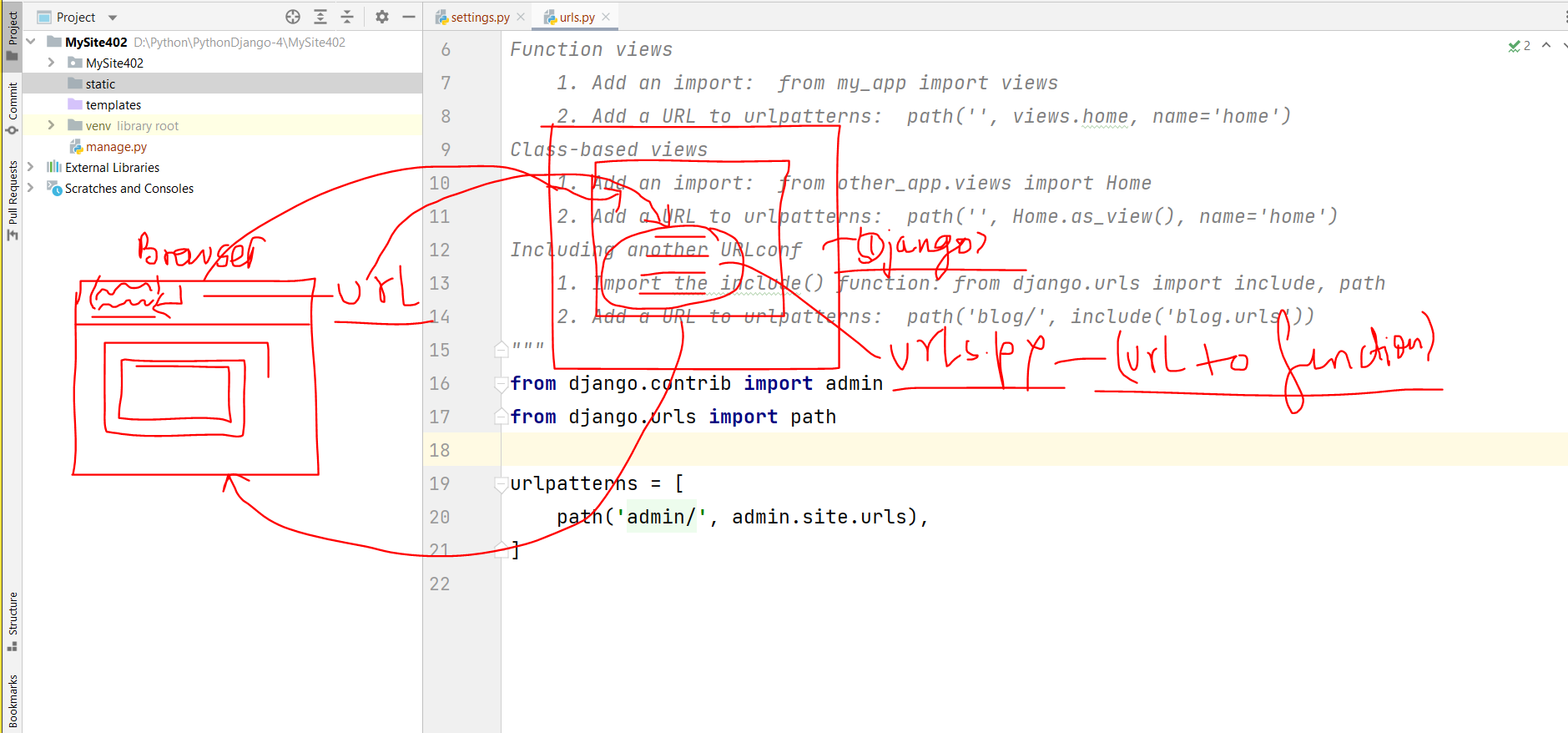






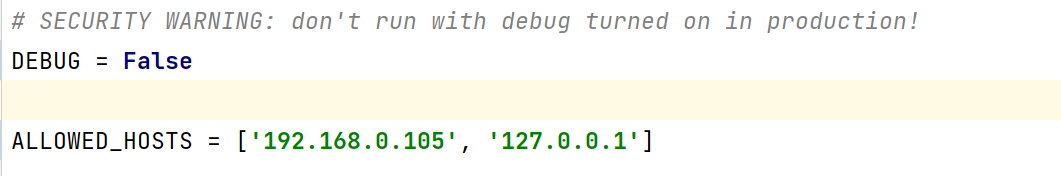




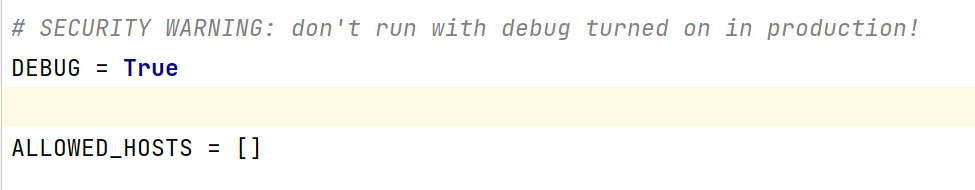


**settings.py**

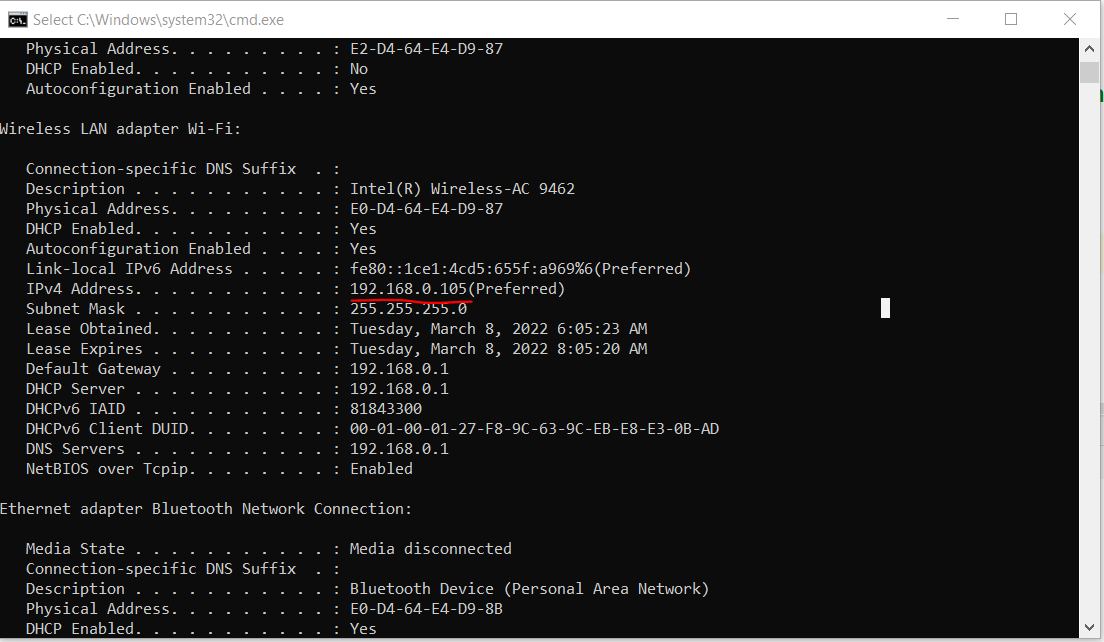
**Testing/development**



**Production/live site**



**Terminal > ipconfig/all**



**5. Startring website (Up)**

**a.** Terminal **->** python manage.py **runserver**

**or**

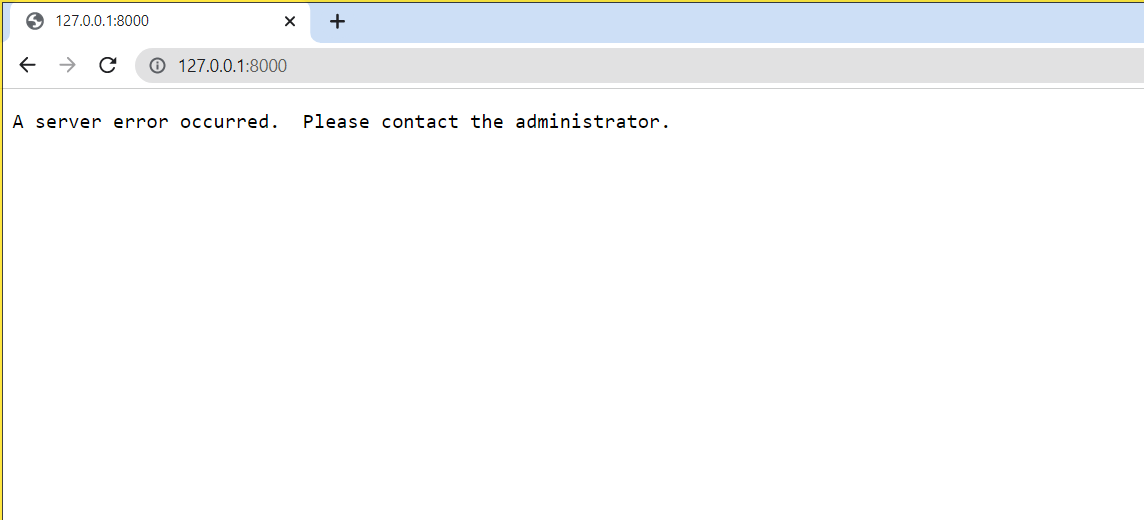
b. Tools (Menu) -> **Run manage.py Task (Terminal of manage.py)**

**runserver**

**6. Website stop (down)**

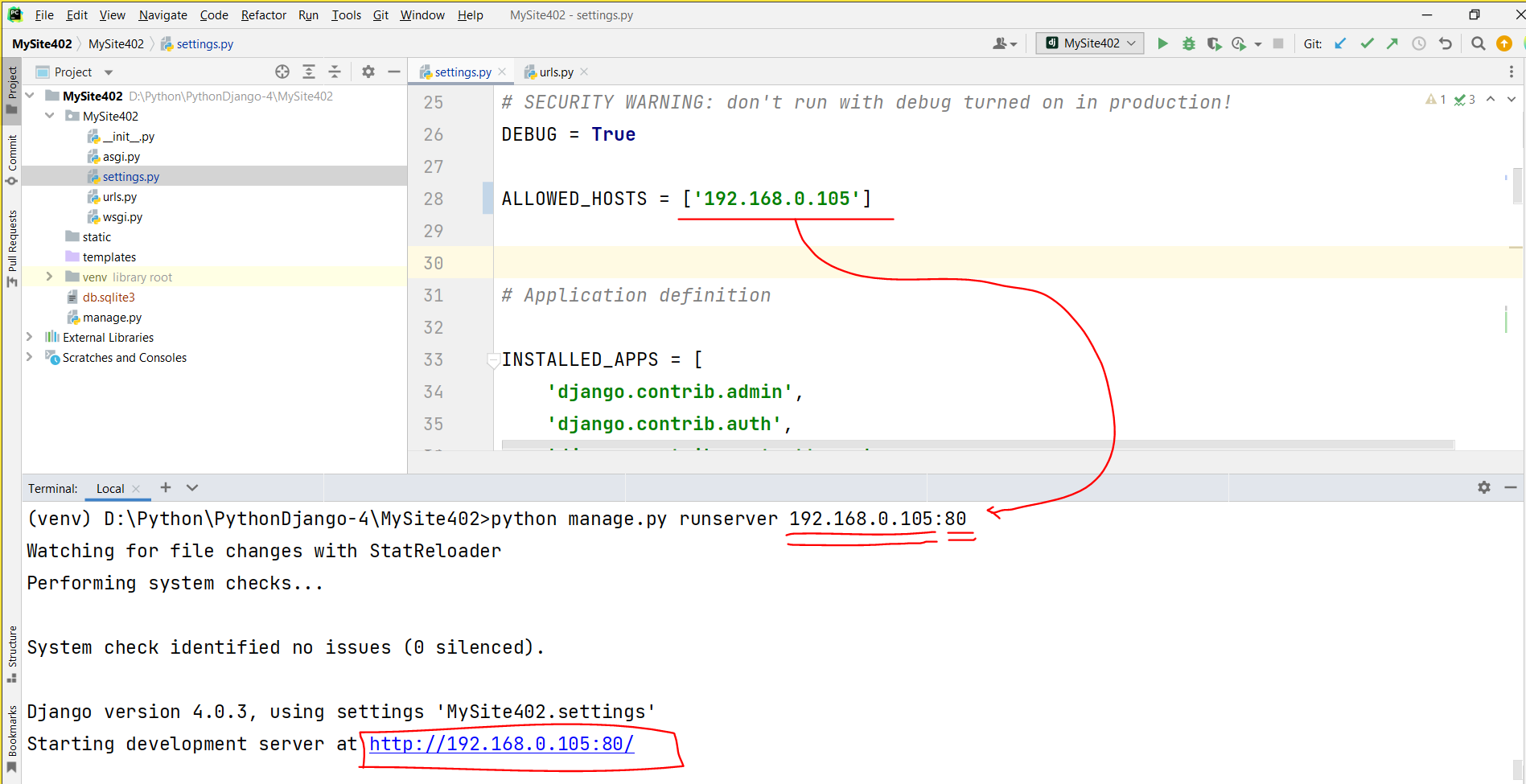
Ctrl + Z or Ctrl + C

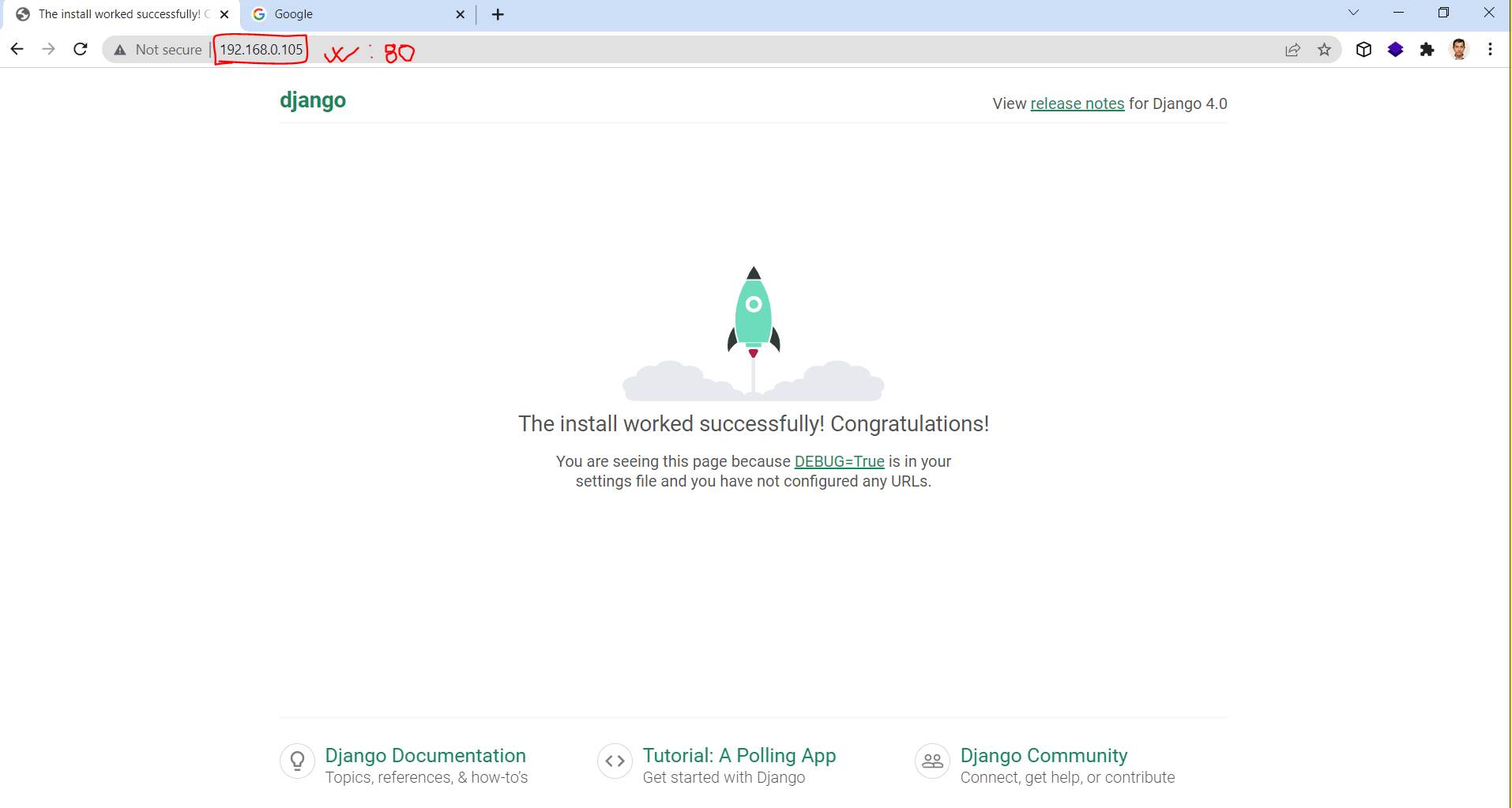
**7. Browse the website**



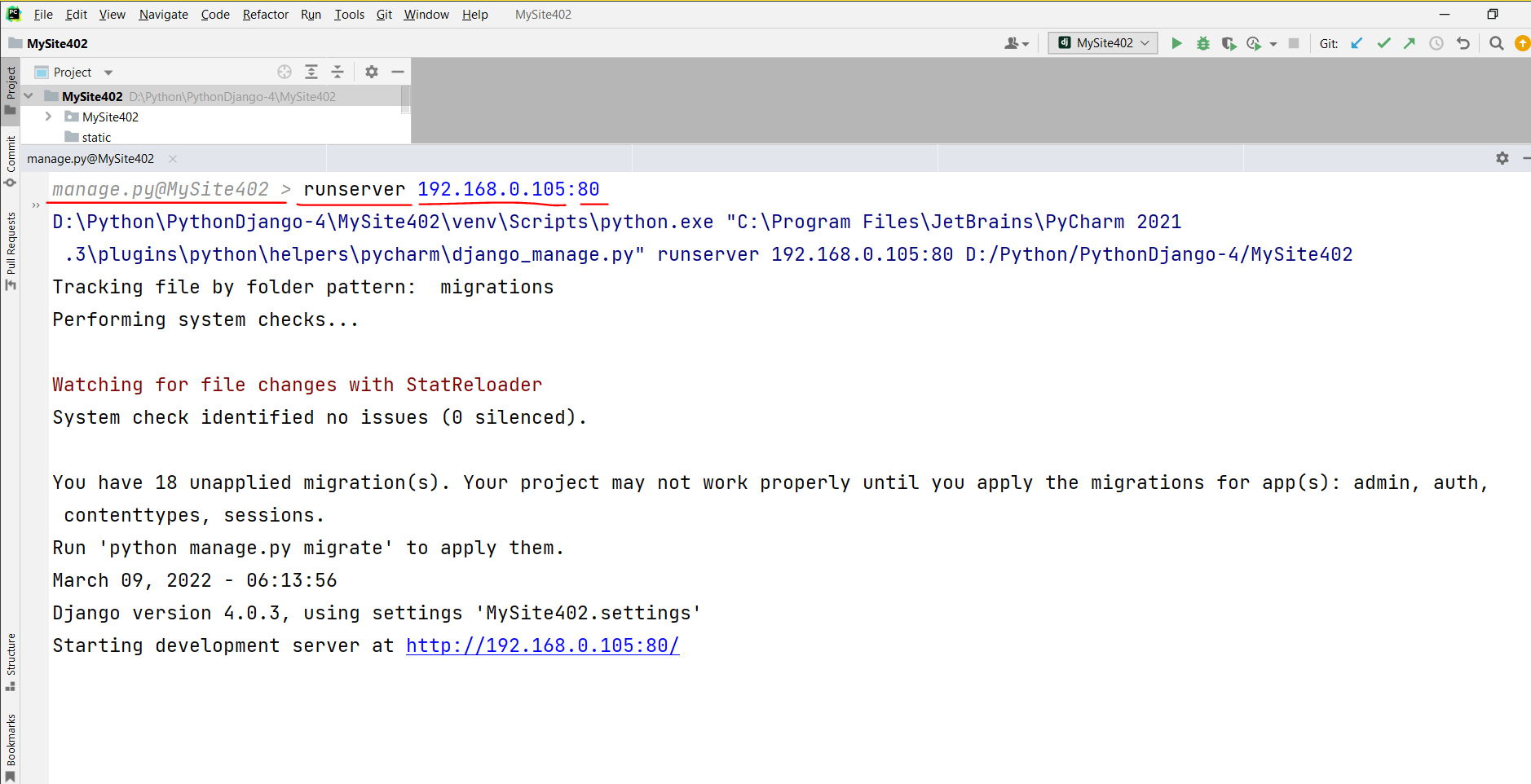
**8. Port in Server Start**

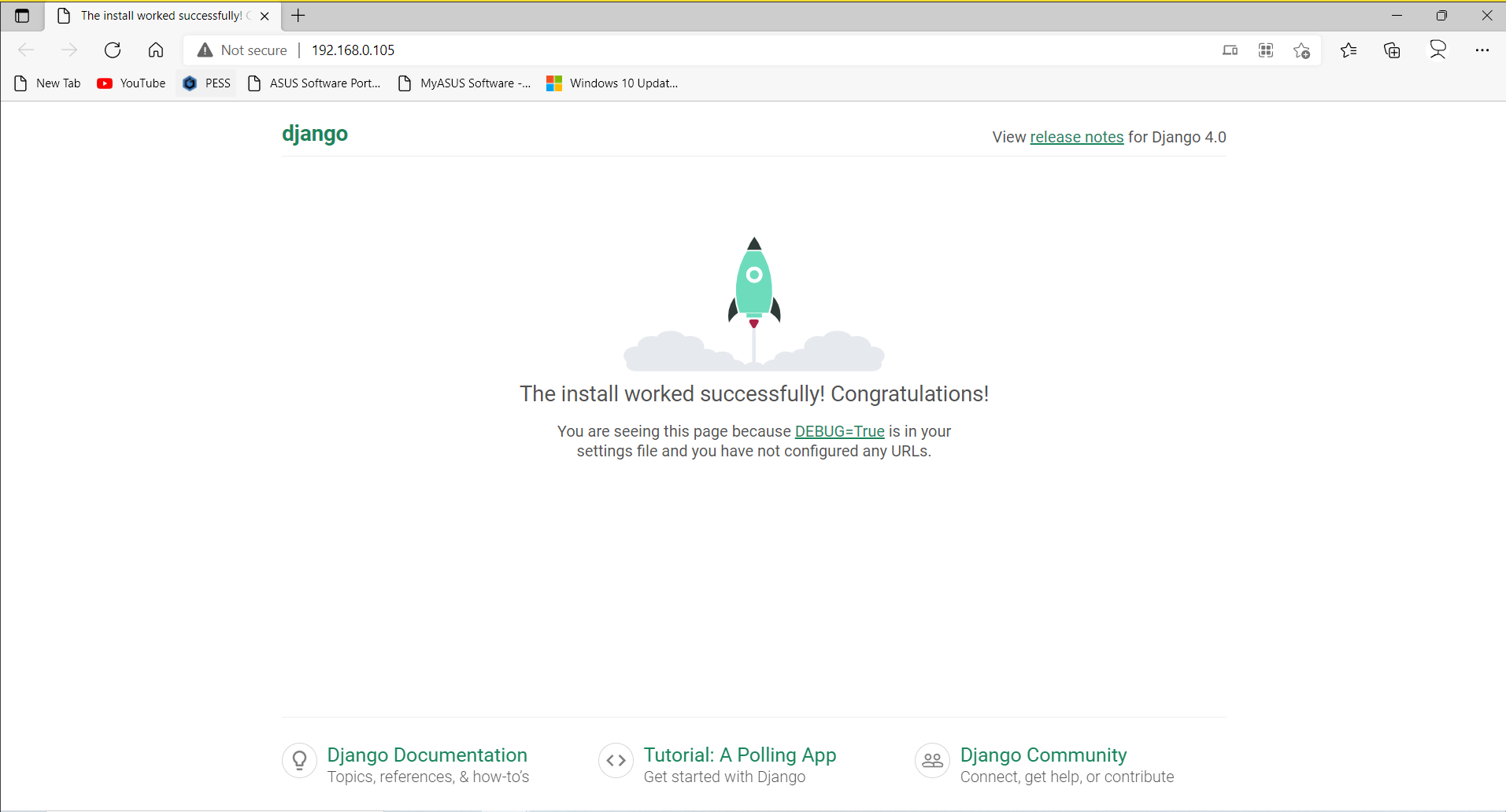
**General Terminal Command**





**Manage.py terminal**



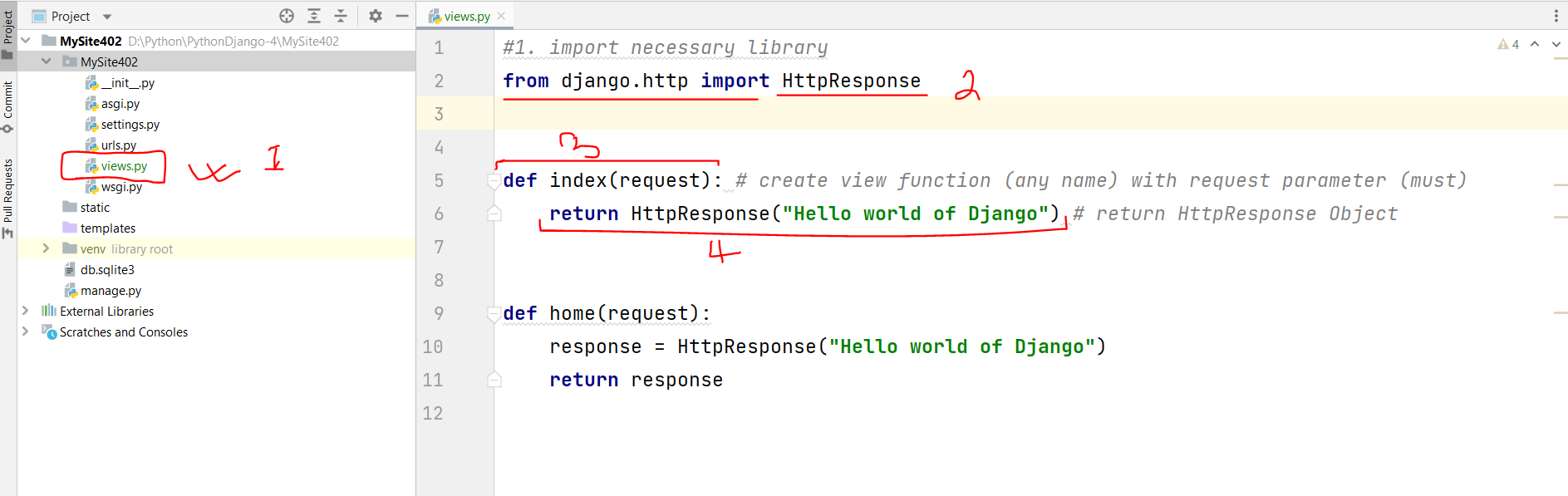


**Task-1**

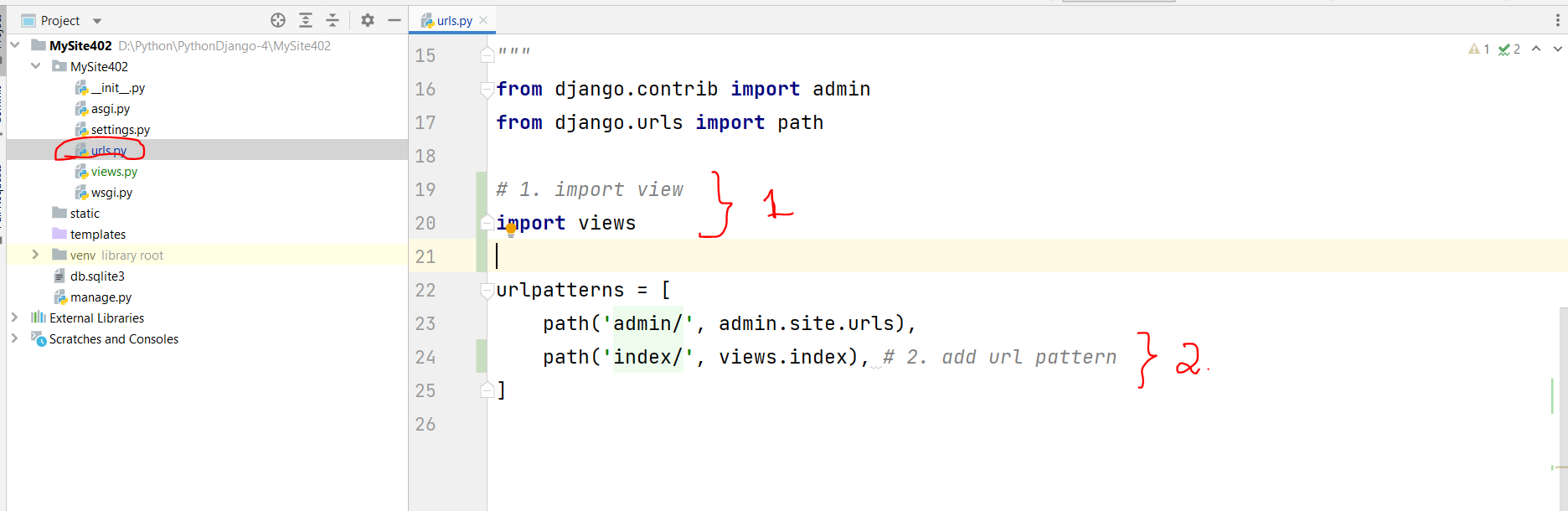
* Display “Hello world of Django!” in browser.

**Solution-1 (RootDir)**

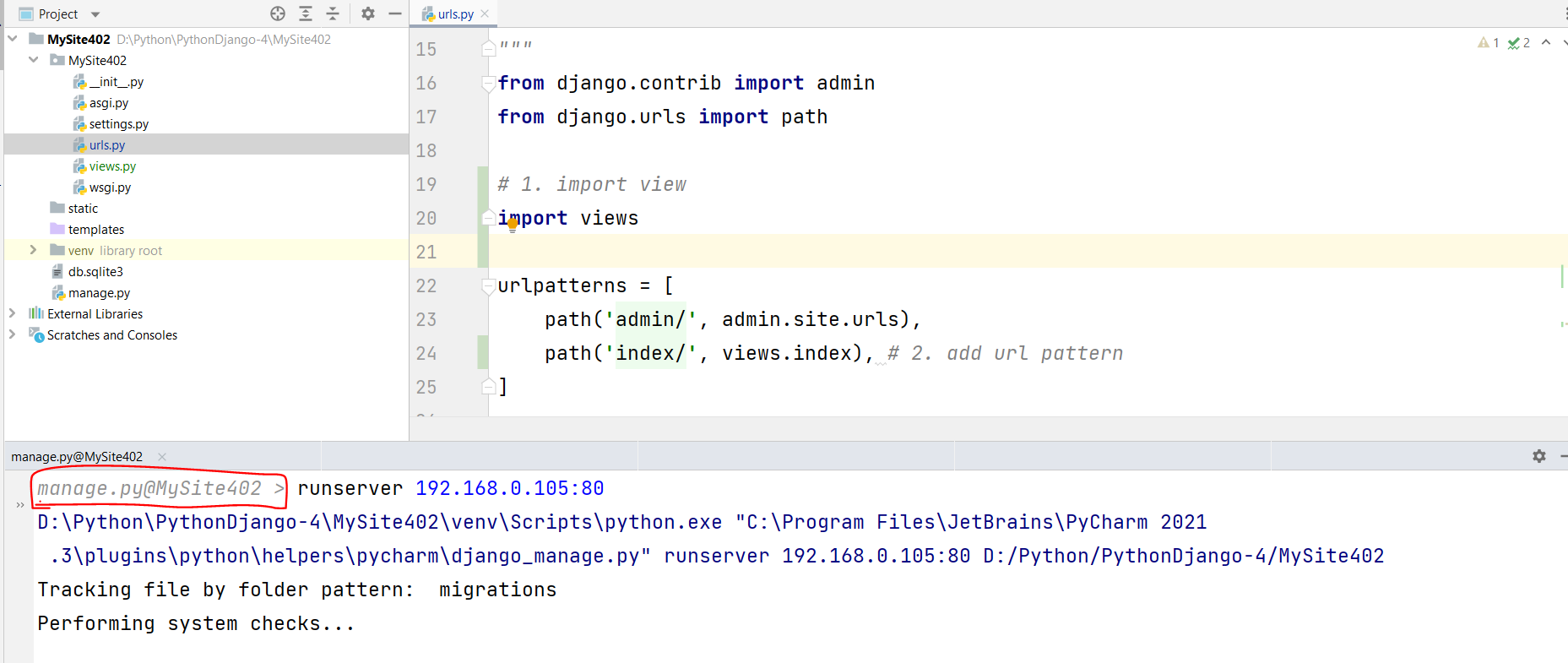
* Create **views.py** file
  + Create view **function** to return “Hello world of Django!”

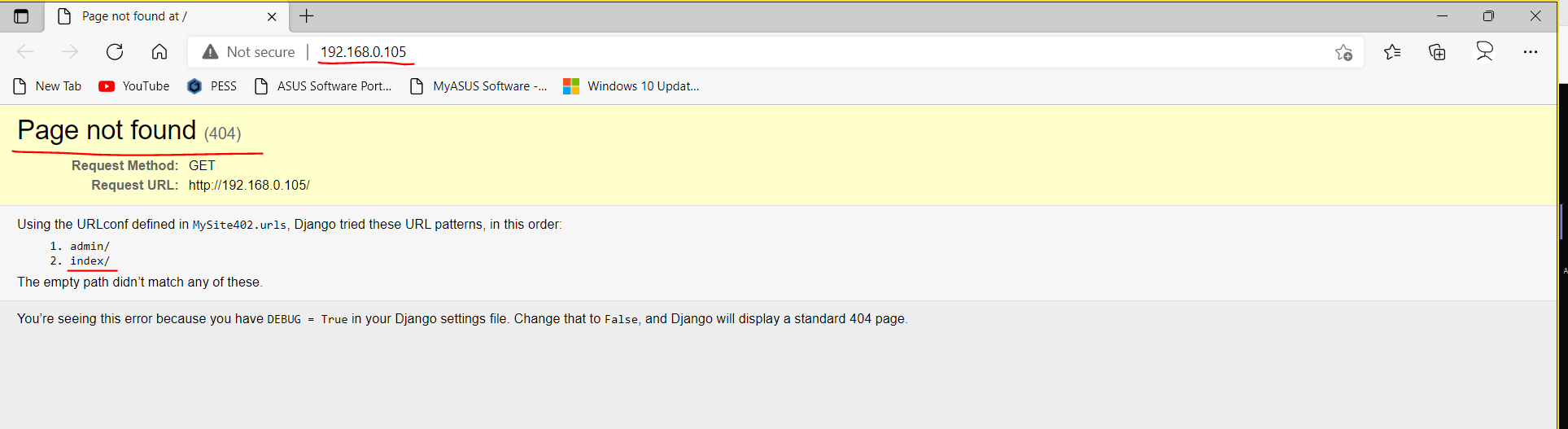


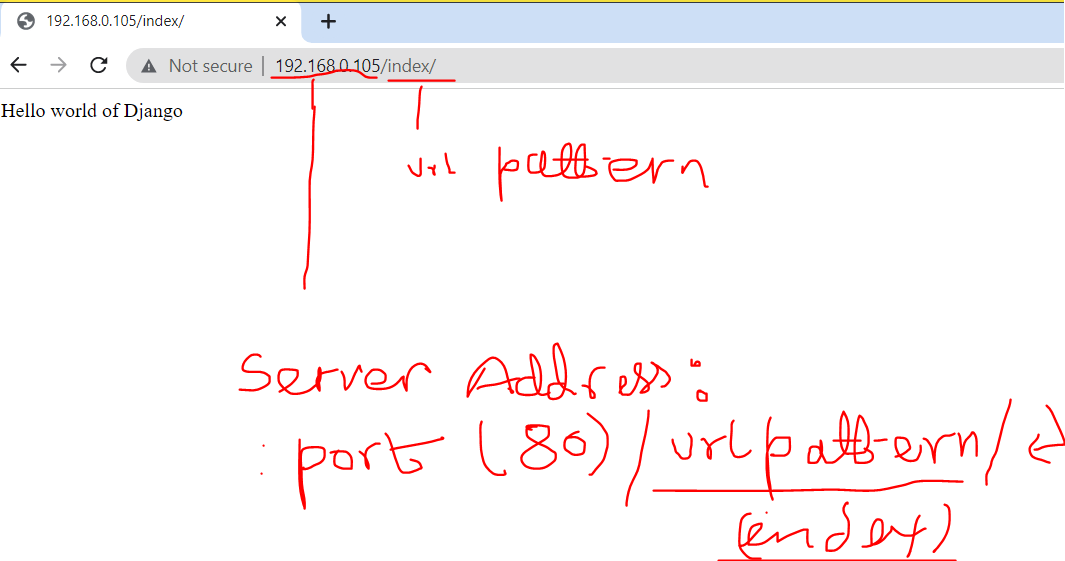
* Create **new url pattern** (update root’s **urls.py** file)



* Run server and browse





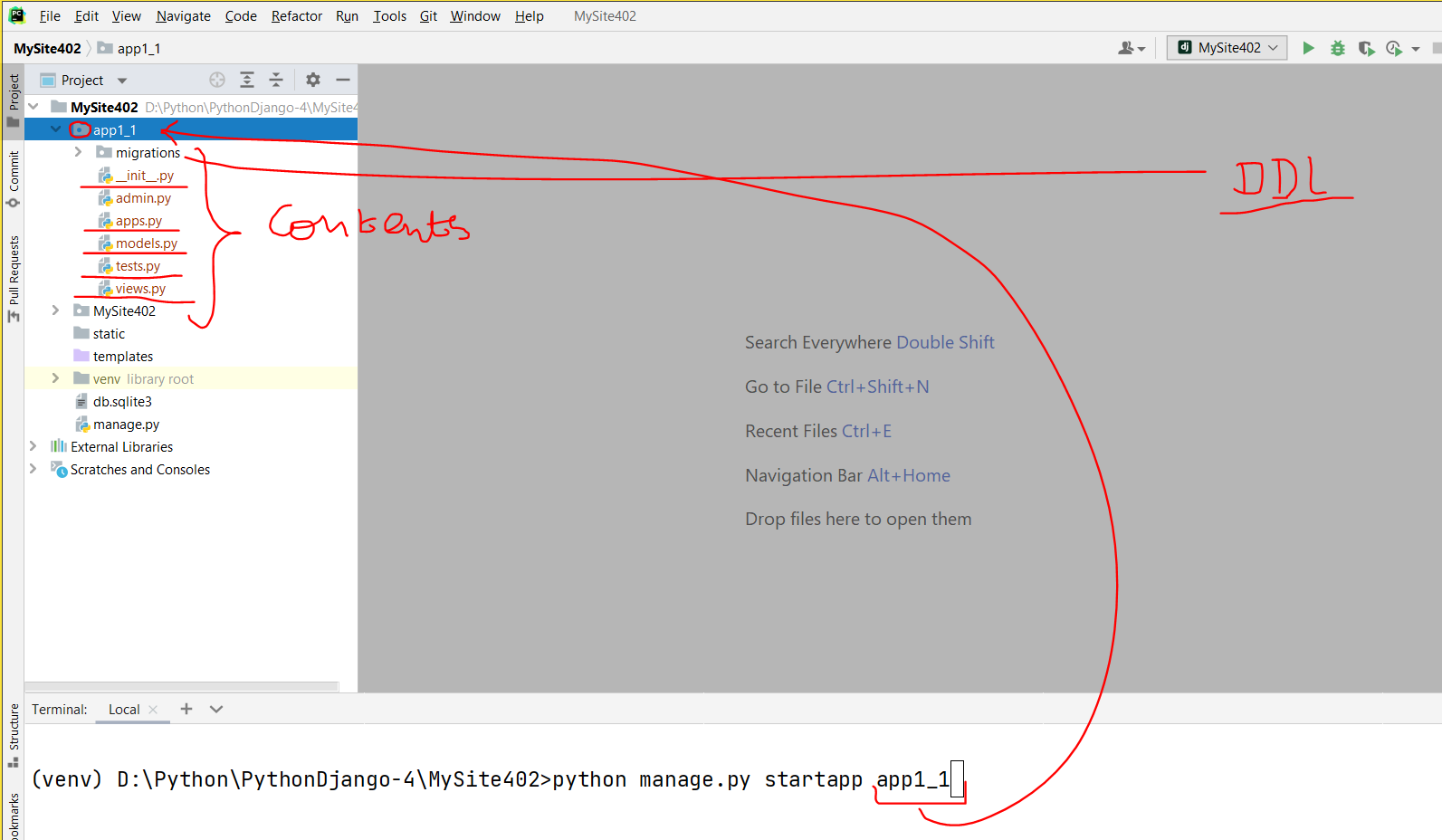


**Task-2:** Create the following views functions and urls pattern to call respective view functions.

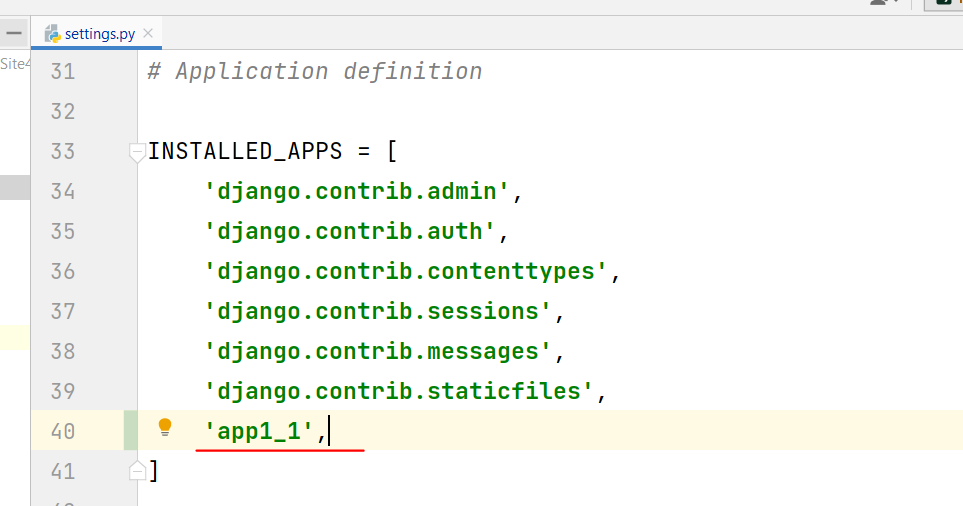
* defualt (Home page)
* successgallery
* testimonials
* onlineadmission
* paymentoption
* offers
* career
* contactus
* blog

**Solution-2 (App)**

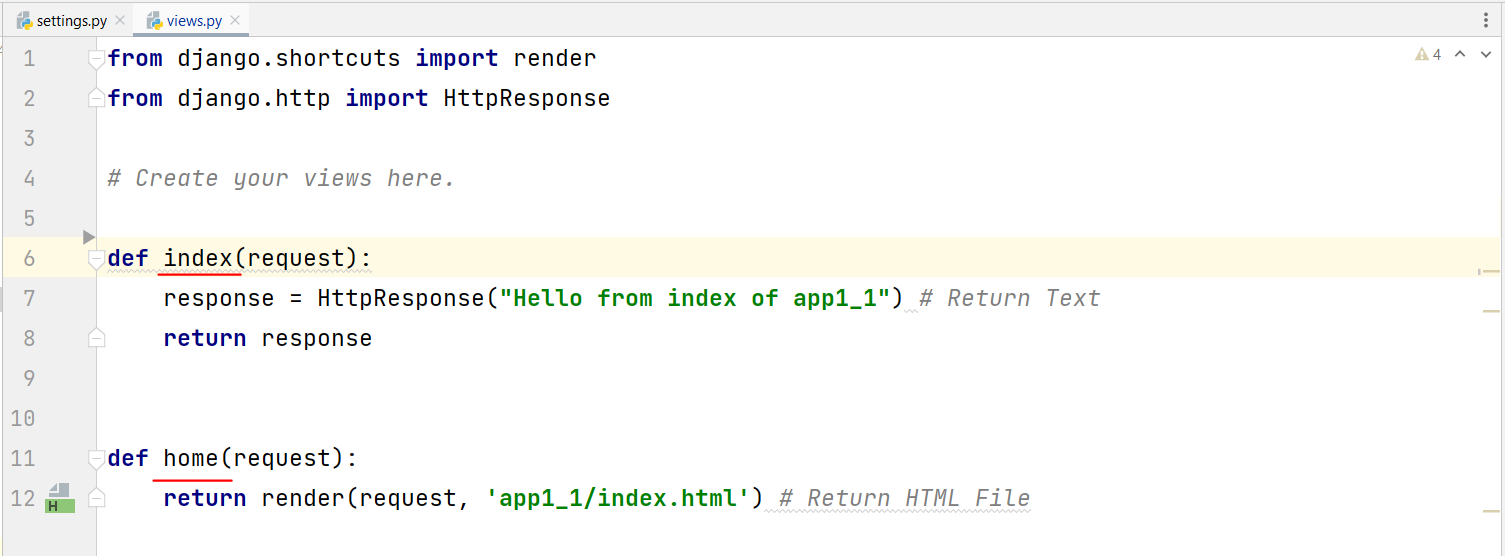
* Creating new app
  + Terminal -> python manage.py startapp **app1\_1**



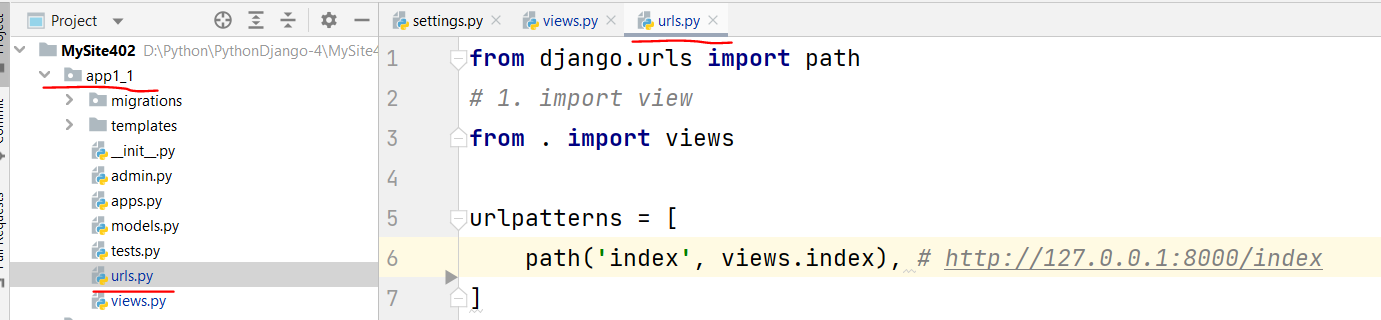
* Register app in rootdir/settings.py -> INSTALLED\_APPS -> add app\_name in list ‘**app1\_1**’



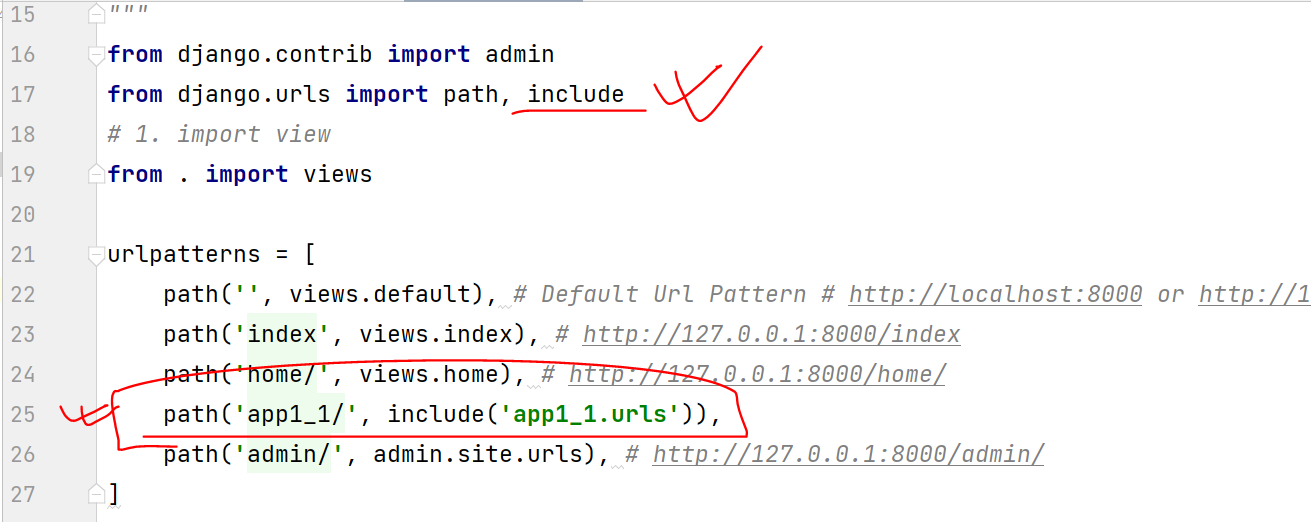
* Create views functions in app (app1\_1\**views.py**)



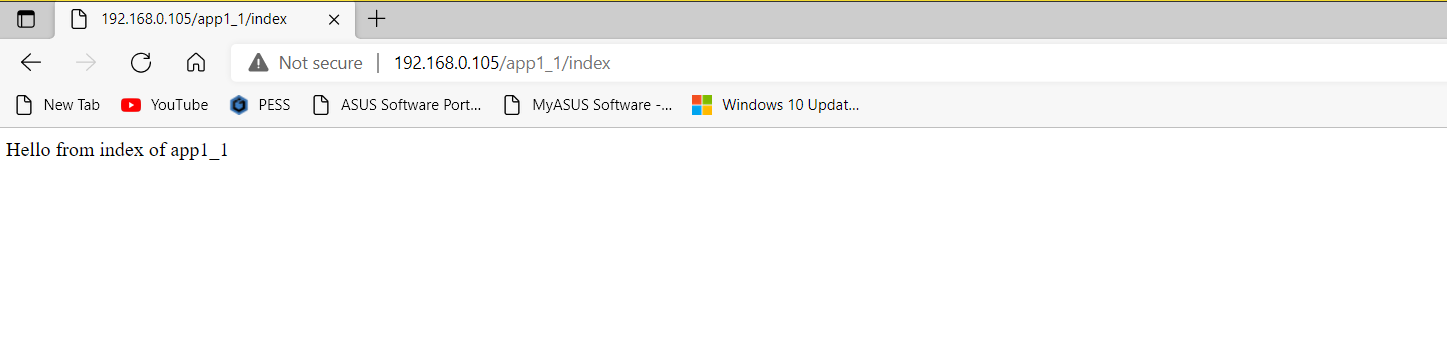
* Create new urls.py file in (app1\_1\**urls.py**)



* Update in root urls.py (MySite402\**urls.py**)



* Browse Site

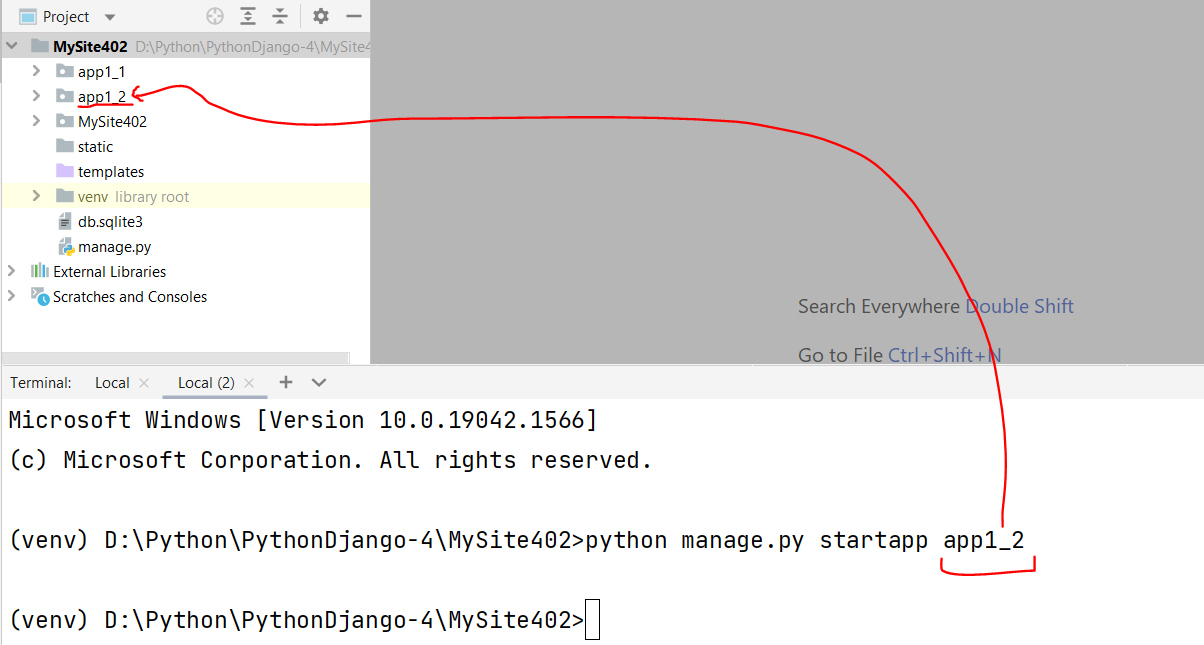


**Task-2:** Create multiple apps and integrate in site.

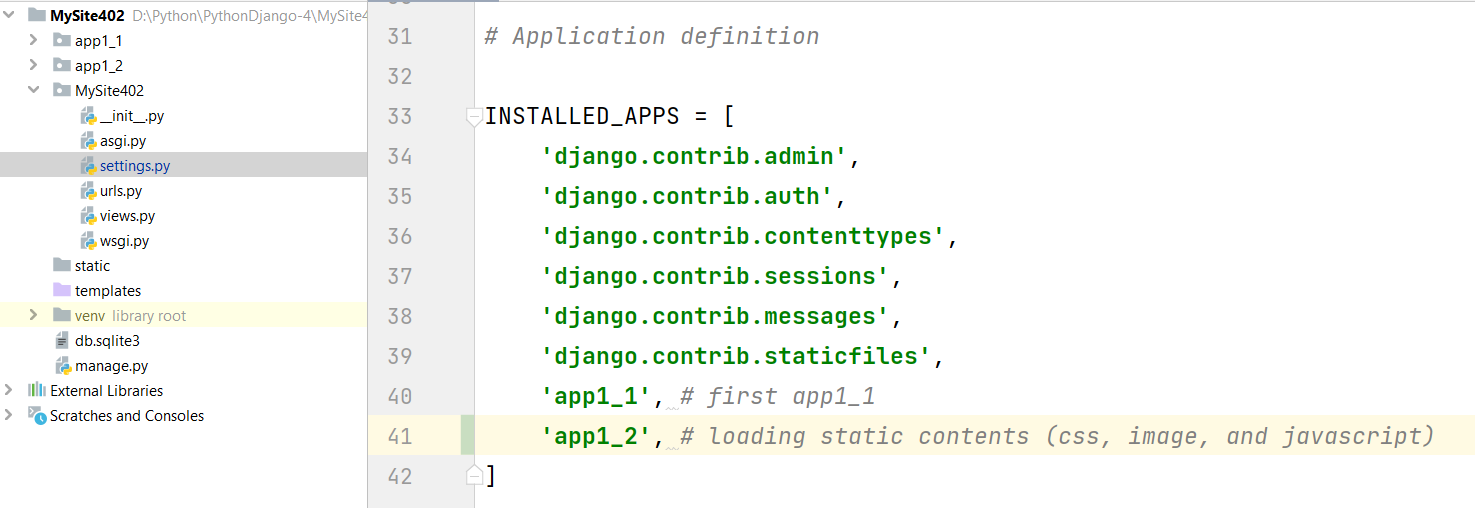
* defualt (Home page)
* successgallery
* testimonials
* onlineadmission
* paymentoption
* offers
* career
* contactus
* blog

**9. Loading Static Contents (css, image, javascript).**

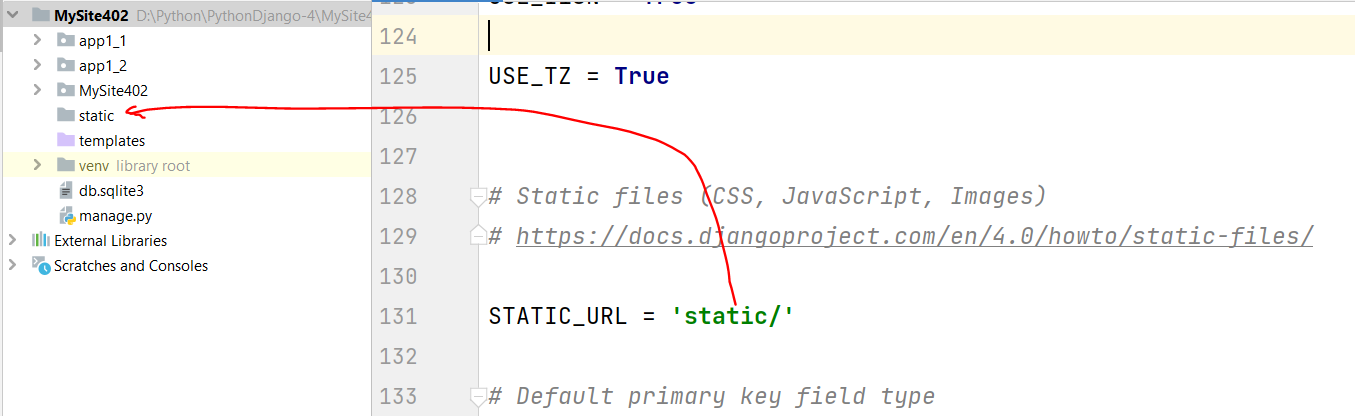
* Create new app (**app1\_2**)

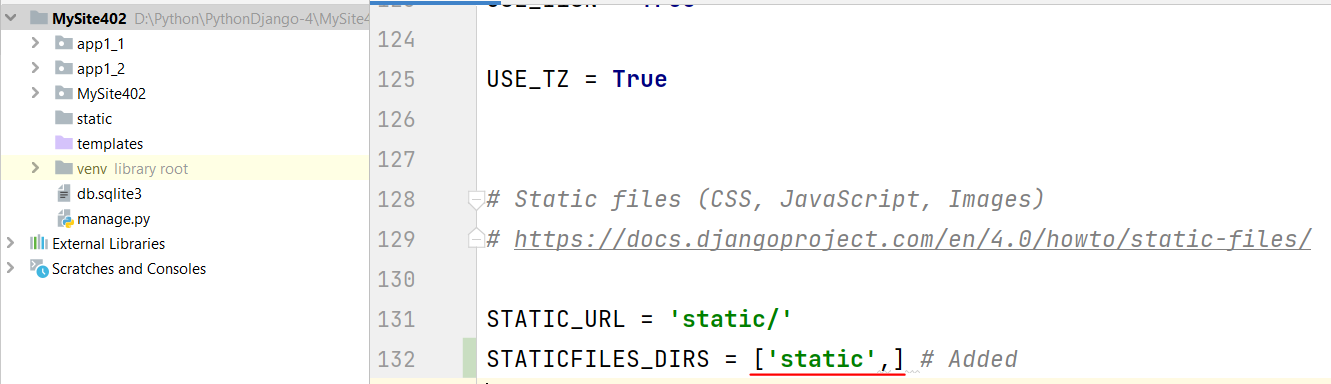


* Register newly created app (root\settings.py\**INSTALLED\_APPS**)

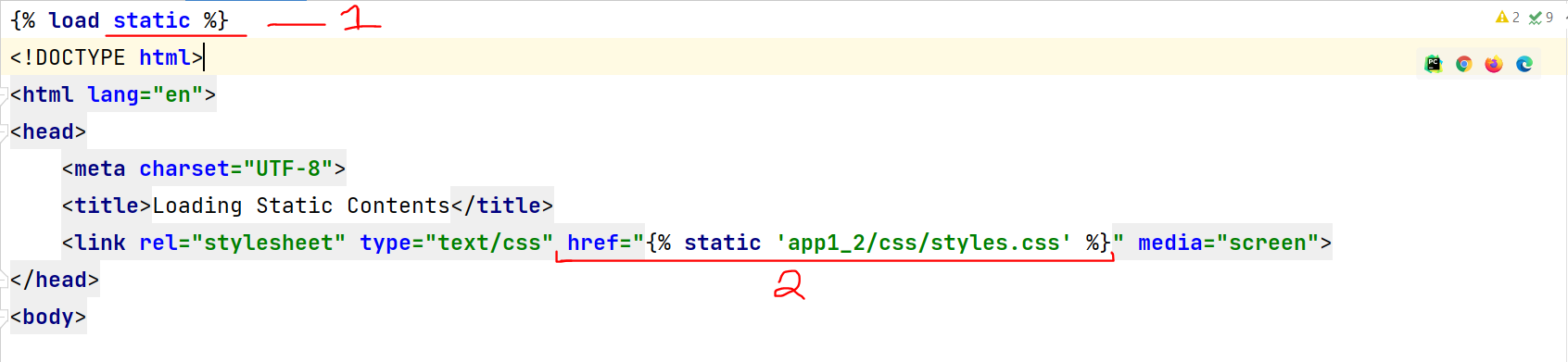


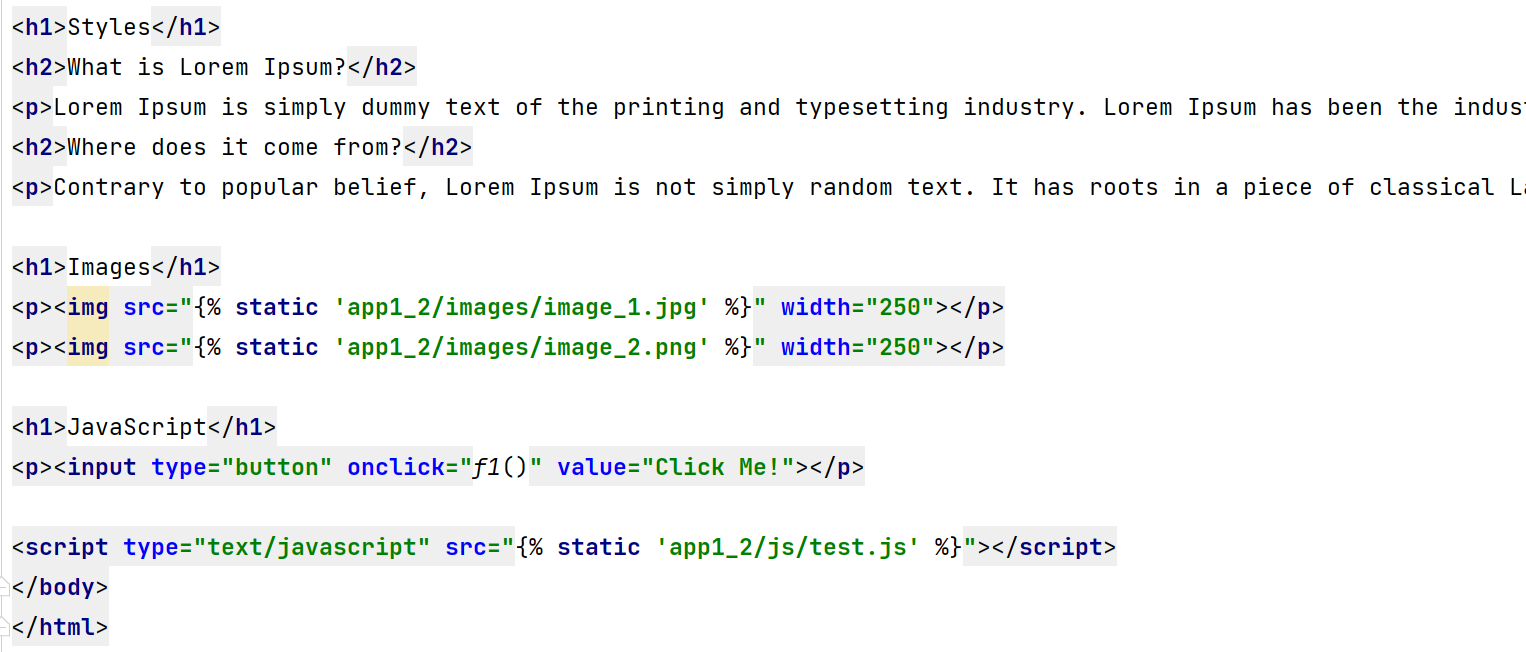
* Upate in root\settings.py by adding **STATIC\_ROOT**
  + Create **static** folder in base dir



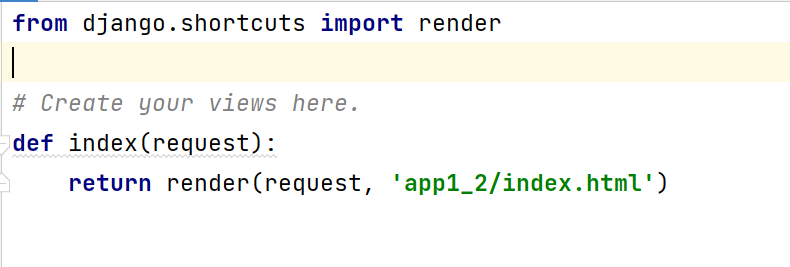


* Create static contents (**css, image, and JavaScript**)
  + BaseDir\static\app1\_2\**css** – folder
  + BaseDir\static\app1\_2\**images** – folder
  + BaseDir\static\app1\_2\**js** – folder
* Create template (**html file**)
  + app1\_2\templates\app1\_2\**index.html**
* Import/Link **static contents** in template (index.html)





* Create **view** functions in app1\_2



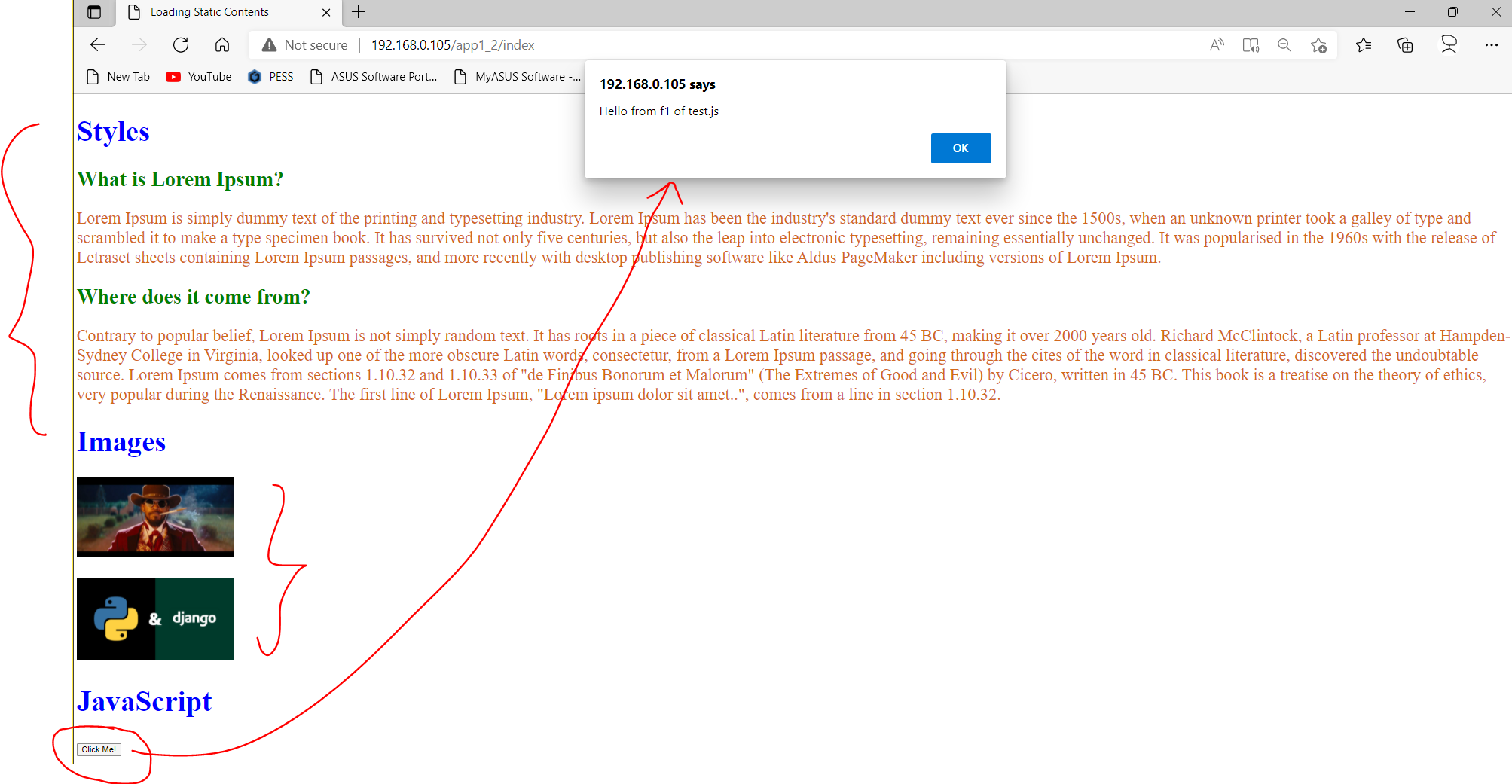
* Create **urls.py** in app1\_2



* Update **root\urls.py**



* **Browse site**



**Note:**

* **HTML, CSS, JavaScript**
* **Bootstrap**
* **Node**, and **Angular**/View/React JS