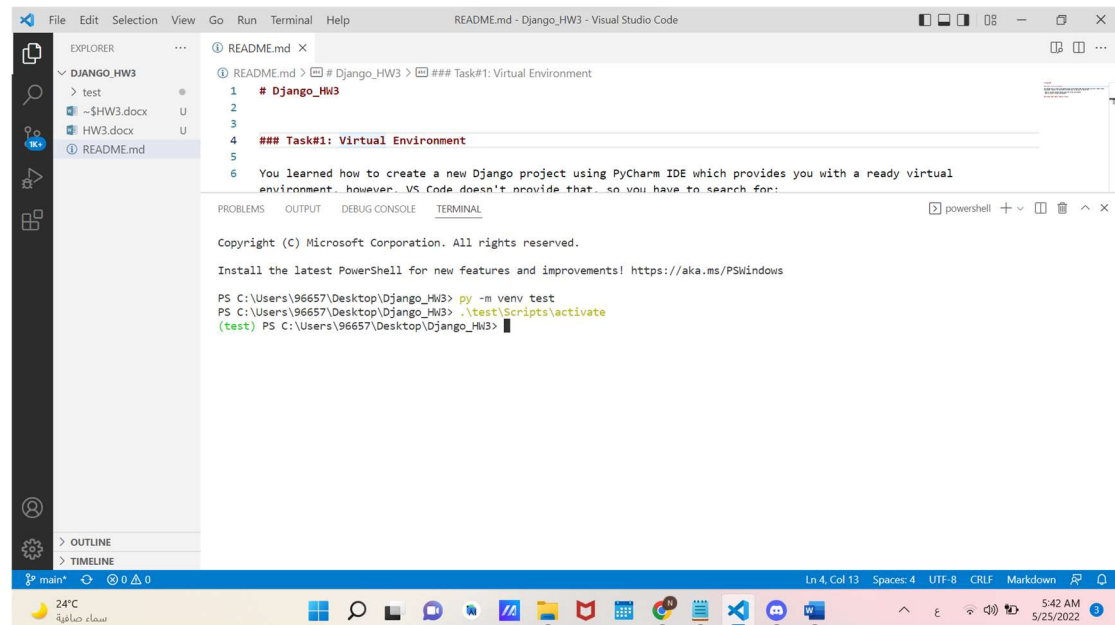


Task#1: Virtual Environment



- What is the main purpose behind using the virtual environment?

virtualenv is a tool for creating isolated Python environments containing their own copy of python , pip , and their own place to keep libraries installed from PyPI. It's designed to allow you to work on multiple projects with different dependencies at the same time on the same machine.

- How to create a virtual environment?

1-create virtual environment 'test'

virtualenv test or python -m venv test or py -m venv test

2-active it

.\test\Scripts\activate

Task#2: Apply CRUD on ToDoList Project

```
from .models import Publisher
ImportError: cannot import name 'Publisher' from 'ToDoApp.models' (C:\Users\96657\Desktop\django\ToDoList\ToDoApp\models.py)
PS C:\Users\96657\Desktop\django\ToDoList> py manage.py makemigrations ToDoApp
Migrations for 'ToDoApp':
  ToDoApp\migrations\0001_initial.py
    - Create model Publisher
PS C:\Users\96657\Desktop\django\ToDoList> py manage.py migrate
Operations to perform:
  Apply all migrations: ToDoApp, admin, auth, contenttypes, sessions
Running migrations:
  Applying ToDoApp.0001_initial... OK
  Applying contenttypes.0001_initial... OK
  Applying auth.0001_initial... OK
  Applying auth.0009_alter_user_last_name_max_length... OK
  Applying auth.0010_alter_group_name_max_length... OK
  Applying auth.0011_update_proxy_permissions... OK
  Applying auth.0012_alter_user_first_name_max_length... OK
  Applying sessions.0001_initial... OK
PS C:\Users\96657\Desktop\django\ToDoList> []
```

```
Go Run Terminal Help • models.py - ToDoList - Visual Studio Code
views.py models.py • README.md •
ToDoApp > models.py > ...
1 from django.db import models
2
3 # Create your models here.
4 class Publisher(models.Model):
5     name = models.CharField(max_length=50, help_text="The name of the Publisher.")
6     website = models.URLField(help_text="The Publisher's website.")
7     email = models.EmailField(help_text="The Publisher's email address.")
8
```

```
View Go Run Terminal Help views.py - ToDoList - Visual Studio Code
... views.py x models.py • README.md •
ToDoApp > views.py > Publisher_list > [0] request
5
6 def about(request):
7     context = {'f_name': 'Nourah', 'l_name': 'Mohammed'}
8     return render(request, 'about.html', context)
9
10 def Publisher_list(request):
11     p = Publisher.objects.all()
12     Publisher_list = []
13     for i in p:
14         Publisher_list.append({'Publisher': i})
15
16     context = {'Publisher_list': Publisher_list}
17     return render(request, 'Publisher_list.html', context)
```

نفس المشكله تتبع الالاب

```
PS C:\Users\96657\Desktop\django\ToDoList> py manage.py shell
Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
(InteractiveConsole)
>>> from ToDoApp.models import Publisher
>>> p=Publisher.objects.create(name='Publisher_A', website='https://ww')
>>> Publisher.objects.all()
<QuerySet [<Publisher: Publisher object (1)>, <Publisher: Publisher object (2)>]>
>>>
```