Section 1

Develop Todo Application

Setup Virtual Environment

Search and open powershell as administrator and run following command Set-ExecutionPolicy RemoteSigned then press A

Install django and create project

pip install django pip list (verify that django has been installed)

django-admin startproject myproj.

python manage.py startapp core mkdir templates python manage.py migrate (observe sqlite file on the left)

Configure core in settings.py

```
∠ myproj

Edit Selection View Go ···
                                    settings.py X
                     todo.html
                             INSTALLED APPS = [
                                 'django.contrib.admin',
                                 'django.contrib.auth',
                                 'django.contrib.contenttypes',
                                 'django.contrib.sessions',
                        37
                                 'django.contrib.messages',
                                  'django.contrib.staticfiles',
wsgi.py
                                 'core',
                        40
> myvenv
                        41

✓ templates

                        42
todo.html
                             MIDDLEWARE = [
                        43
≡ db.sqlite3
                                  'django.middleware.security.Secur
manage.py
```

Configure templates in settings.py

```
Edit Selection View Go ···
                                                          e settings.py X
                      todo.html
                             TEMPLATES = [
                        56
                        57
                                      'BACKEND': 'django.template.backend
                                      'DIRS': ['templates'],
                        58
                                      'APP DIRS': True,
                        59
settings.py
                                      'OPTIONS': {
                        60
d urls.py
                                          'context processors':
                        61
wsgi.py
                                               'django.template.context pro
                        62
> myvenv
                                               'django.template.context pro
                        63

∨ templates

                                               'django.contrib.auth.contex
                        64
todo.html
                                               'django.contrib.messages.co
                        65

    db.salite3

                        66
manage.py
```

Create todo model

Update models.py

from django.db import models class todo(models.Model): task=models.CharField(max_length=50)

Run following in terminal:

python manage.py makemigrations python manage.py migrate

Create todo.html inside templates

```
<!DOCTYPE html>
<html lang="en">
<head><title>Document</title></head>
<body>
<h1>Todo Application</h1>
<form method="POST">
{% csrf_token %}
<input type="text" name="task" /><button>Add</button>
</form>
{% for row in todos%}
<div>
{frow.task}} <a href="/deleteTodo/?id={{row.id}}">Delete</a>
</div>
{% endfor %}
</body>
</html>
```

Add todo function in views.py

```
from core import models

def todo(request):
    if request.method=="POST":
        task = request.POST.get("task")
        c = models.todo(task=task)
        c.save()
    mytodo = models.todo.objects.all()
    data = {'todos':mytodo}
    return render(request,"todo.html",data)
```

Add deleteTodo function in views.py

```
def deleteTodo(request):
    if request.method=="GET":
       todoId = int(request.GET.get("id"))
       models.todo.objects.filter(id=todoId).delete()
    return todo(request)
```

Add path in urls.py

```
from django.contrib import admin
from django.urls import path,include
from core import views

urlpatterns = [
   path('admin/', admin.site.urls),
   path('',views.todo),
   path('deleteTodo/',views.deleteTodo),
]
```

Run server and view todo in browser

In terminal type > python manage.py runserver

open any browser and type following url to view todo app http://127.0.0.1:8000/