**Python Assignment**

# **Module – 5 (DB and Python Framework)**

**➢ QUESTION : 1 Why Django should be used for web-development? Explain how you can create a project in Django?**

Django is an open-source framework for backend web applications based on Python — one of the top web development languages. Its main goals are simplicity, flexibility, reliability, and scalability.

* **Create a project in Django :**

### **Step 1: Opening PowerShell**

### **Step 2: Verifying Python Installation**

### **Step 3: Upgrading PIP**

### **Step 4: Creating a Project Directory**

### **Step 5: Creating the Virtual Environment**

### **Step 6:** **Activating the Virtual Environment**

### **Step 7: Installing Django**

### **Step 8: Create the Django Project**

### **Step 9: Running the Development Server**

### **Step 10:** Create app in Django

**➢ QUESTION : 2 How to check installed version of Django?**

To check the Django version for python3 open the terminal and write the command in your terminal:

* **python -m django --version**

**➢ QUESTION : 3 Explain what does django-admin.py make messages command is used for?**

The ‘makemessages’ command scans the codebase of a Django project to find strings marked for translation using the ‘gettext’ function. It then creates or updates message files containing these strings in a specified target directory. These message files are used as a basis for translations into different languages.

* django-admin.py makemessages -l de
* django-admin.py makemessages -l en
* django-admin.py makemessages -l fr
* django-admin.py makemessages -l es
* django-admin.py makemessages -l pt

**➢ QUESTION : 4 What is Django URLs? make program to create django urls**

In Django, URLs (Uniform Resource Locators) are used to map specific URLs to views in your web application. The urls.py file in a Django project defines the URL patterns for your application.

**➢ QUESTION : 5 What is a QuerySet ? Write program to create a new Post object in database:**

In Django, a QuerySet is a collection of database queries that can be used to retrieve data from your database. It allows you to filter, order, and manipulate data before it is retrieved from the database. A QuerySet is lazily evaluated, meaning the actual database query is not executed until the data is explicitly requested.

**➢ QUESTION : 6 Mention what command line can be used to load data into Django?**

The Django loaddata command allows you to load data from a file into the database. Typically, you use the dumpdata command to export data from a database and use the loaddata command to import data from the file into the same or another database.

The syntax of the loaddata command:

* Python manage.py loaddata fixture\_name()

A fixture is a collection of data files that Django will use to import into a database.