

## **Answer the following**

### **1. What is Django Template Language? Why it is need in Django Web application Development?**

What is DTL?

Django Template Language is a built-in templating system provided by Django for generating dynamic HTML content. It uses tags, filters, and variables to embed logic and data into templates.

Why is DTL needed?

- Separates presentation from logic: Keeps HTML separate from Python code.
- Dynamic rendering: Allows display of data passed from views (e.g., user info, database results).
- Simplifies HTML generation: Provides control structures like loops, conditions, and includes directly in templates.
- Security: Auto-escapes variables to prevent cross-site scripting (XSS) attacks.

### **2. How do you pass context variables from a Django view to a template, and how do you access them in the template?**

Passing context variables (in the view):

```
from django.shortcuts import render
```

```
def profile_view(request):  
    context = {  
        'username': 'john_doe',  
        'age': 25  
    }  
    return render(request, 'profile.html', context)
```

Accessing context variables (in the template):

```
<!-- profile.html -->  
<h1>User Profile</h1>  
<p>Username: {{ username }}</p>  
<p>Age: {{ age }}</p>
```