**[Que-41] - Write a Flask route that accepts a parameter in URL and displays it on the page**

To create a Flask route that accepts a parameter in the URL and displays it on the page, you can use Flask's route parameter feature. Here is a step-by-step guide:

### **Step 1: Install Flask**

If you haven't installed Flask yet, you can do so using pip:

pip install flask

### **Step 2: Create the Flask Application**

Create a new Python file, e.g., app.py.

### **Step 3: Define a Route with a URL Parameter**

Here is the complete code for app.py:

from flask import Flask  
  
app = Flask(\_\_name\_\_)  
  
@app.route('/hello/<name>')  
def hello(name):  
 return f'Hello, {name}!'  
  
if \_\_name\_\_ == '\_\_main\_\_':  
 app.run(debug=True)

### **Explanation:**

1. **Import Flask**: from flask import Flask
   * This imports the Flask class from the flask module.
2. **Create an instance of Flask**: app = Flask(\_\_name\_\_)
   * This creates an instance of the Flask class. The \_\_name\_\_ variable is used to determine the root path of the application.
3. **Define a route with a URL parameter**: @app.route('/hello/<name>')
   * This decorator function tells Flask to execute the hello function when the URL pattern /hello/<name> is accessed. The <name> part of the URL is a variable, and Flask will pass its value to the hello function.
4. **Define the view function**: def hello(name):
   * This function takes the name parameter from the URL and returns a string that includes the value of name.
5. **Run the application**: if \_\_name\_\_ == '\_\_main\_\_': app.run(debug=True)
   * This condition checks if the script is executed directly (not imported as a module), and if so, it runs the Flask application with debugging enabled.

### **Running the Flask Application:**

1. Open a terminal or command prompt.
2. Navigate to the directory where app.py is located.
3. Run the following command:

python app.py

1. Open a web browser and go to <http://127.0.0.1:5000/hello/yourname> (replace yourname with any name you want).

You should see the page display "Hello, yourname!" where yourname is the name you passed in the URL.

### **Example URLs:**

* <http://127.0.0.1:5000/hello/Alice> will display "Hello, Alice!"
* <http://127.0.0.1:5000/hello/Bob> will display "Hello, Bob!"