**[Que-39] - How would you create a basic Flask route that display "Hello, World!" on the homepage?**

Creating a basic Flask route to display "Hello, World!" on the homepage involves setting up a simple Flask application. Here's a step-by-step guide to create the route:

1. **Install Flask**: If you haven't installed Flask yet, you can do so using pip:

pip install flask

1. **Create the Flask Application**:
   * Create a new Python file, e.g., app.py.
   * Import the Flask module and create an instance of the Flask class.
   * Define a route for the homepage (/) and specify the function that will return the "Hello, World!" message.

Here is the complete code for app.py:

from flask import Flask  
  
app = Flask(\_\_name\_\_)  
  
@app.route('/')  
def hello\_world():  
 return 'Hello, World!'  
  
if \_\_name\_\_ == '\_\_main\_\_':  
 app.run(debug=True)

### **Explanation:**

* **Import Flask**: from flask import Flask
  + This imports the Flask class from the flask module.
* **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.
* **Define a route**: @app.route('/')
  + This decorator function tells Flask to execute the hello\_world function when the root URL (/) is accessed.
* **Define the view function**: def hello\_world():
  + This function returns the string "Hello, World!" which will be displayed on the homepage.
* **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/>.

You should see "Hello, World!" displayed on the homepage.