

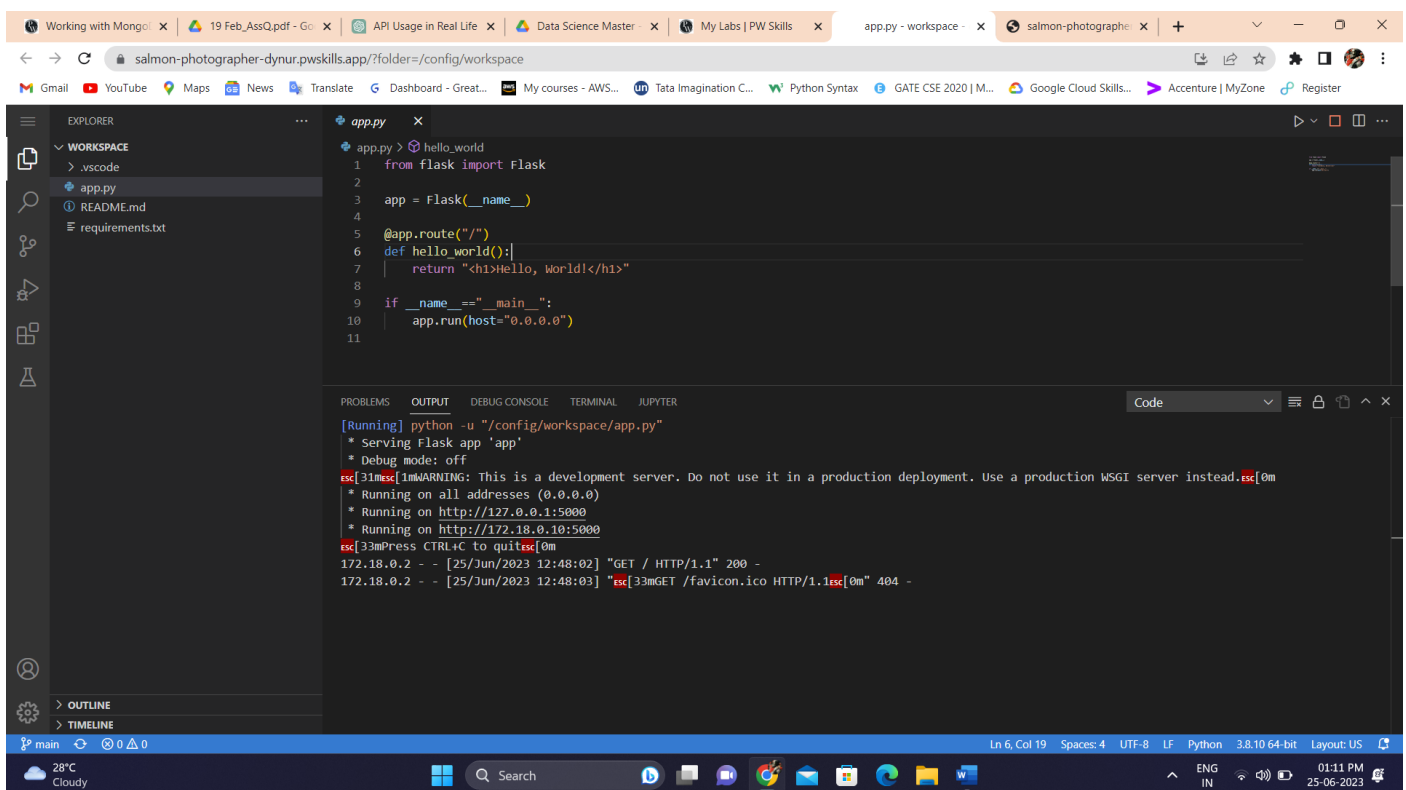
Q1. What is Flask Framework? What are the advantages of Flask Framework?

Ans - Flask is a micro web framework written in Python. It is designed to be lightweight, flexible, and easy to use, making it a popular choice for developing web applications and APIs.

- **Simplicity:** Flask follows a minimalistic approach, keeping the core framework simple and easy to understand. Its straightforward API and intuitive design make it beginner-friendly and allow developers to quickly start building web applications.
- **Lightweight and Flexible:** Flask is a micro framework, which means it does not impose rigid structures or dependencies. It allows developers to choose and integrate the components they need, making it highly flexible and adaptable to different project requirements.
- **Extensibility:** Flask provides a modular design that allows developers to easily extend and customize its functionality. It supports the use of various Flask extensions, which are third-party libraries that add extra features such as database integration, authentication, and more.
- **Built-in Development Server:** Flask comes with a built-in development server, enabling developers to test and run their applications locally without the need for additional server setup. This feature is convenient for rapid development and debugging.

Q2. Create a simple Flask application to display 'Hello World!!'. Attach the screenshot of the output in Jupyter Notebook.

Ans -



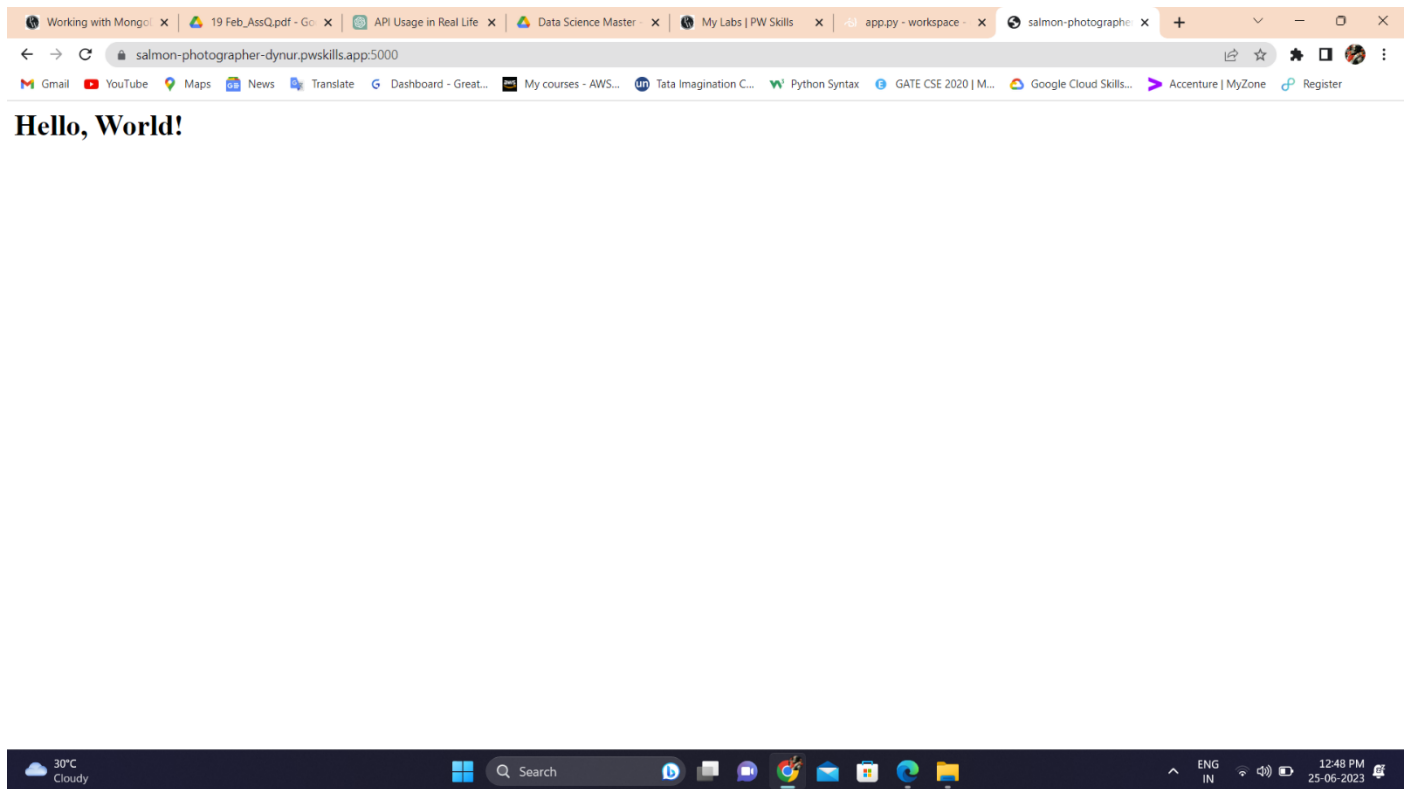
The screenshot shows a VS Code editor with a workspace named 'salmon-photographer-dynur.pwskills.app'. The Explorer panel on the left shows the workspace structure with files like 'app.py', 'README.md', and 'requirements.txt'. The main editor displays the code for 'app.py'.

```
app.py
1  from flask import Flask
2
3  app = Flask(__name__)
4
5  @app.route("/")
6  def hello_world():
7      return "<h1>Hello, World!</h1>"
8
9  if __name__ == "__main__":
10     app.run(host="0.0.0.0")
11
```

The Output panel at the bottom shows the execution of the code:

```
[Running] python -u "/config/workspace/app.py"
* Serving Flask app 'app'
* Debug mode: off
esc[31mesc[1mWARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.esc[0m
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://172.18.0.10:5000
esc[33mPress CTRL+C to quitesc[0m
172.18.0.2 - - [25/Jun/2023 12:48:02] "GET / HTTP/1.1" 200 -
172.18.0.2 - - [25/Jun/2023 12:48:03] "esc[33mGET /favicon.ico HTTP/1.1esc[0m" 404 -
```

The status bar at the bottom indicates the file is 'main', the editor is in 'main' mode, and the Python version is '3.8.10 64-bit'.



Q3. What is App routing in Flask? Why do we use app routes?

Ans -

-In Flask, app routing refers to the process of associating URL routes with specific functions or views within a web application. It allows you to map different URLs to different functions, enabling the application to respond to different requests and display appropriate content.

The `app.route()` decorator is used to define routes in Flask. It binds a URL pattern to a function, specifying which function should be executed when a particular URL is accessed.

- Request Handling: App routes allow you to handle different types of requests, such as GET, POST, PUT, or DELETE, for specific URLs. This allows you to define different functions or methods for processing each type of request, enabling different actions to be taken based on the requested URL.
- URL Mapping: By defining app routes, you can map different URLs to specific functions within your application. This helps in creating a logical structure for your web application, ensuring that each URL is associated with the appropriate functionality.
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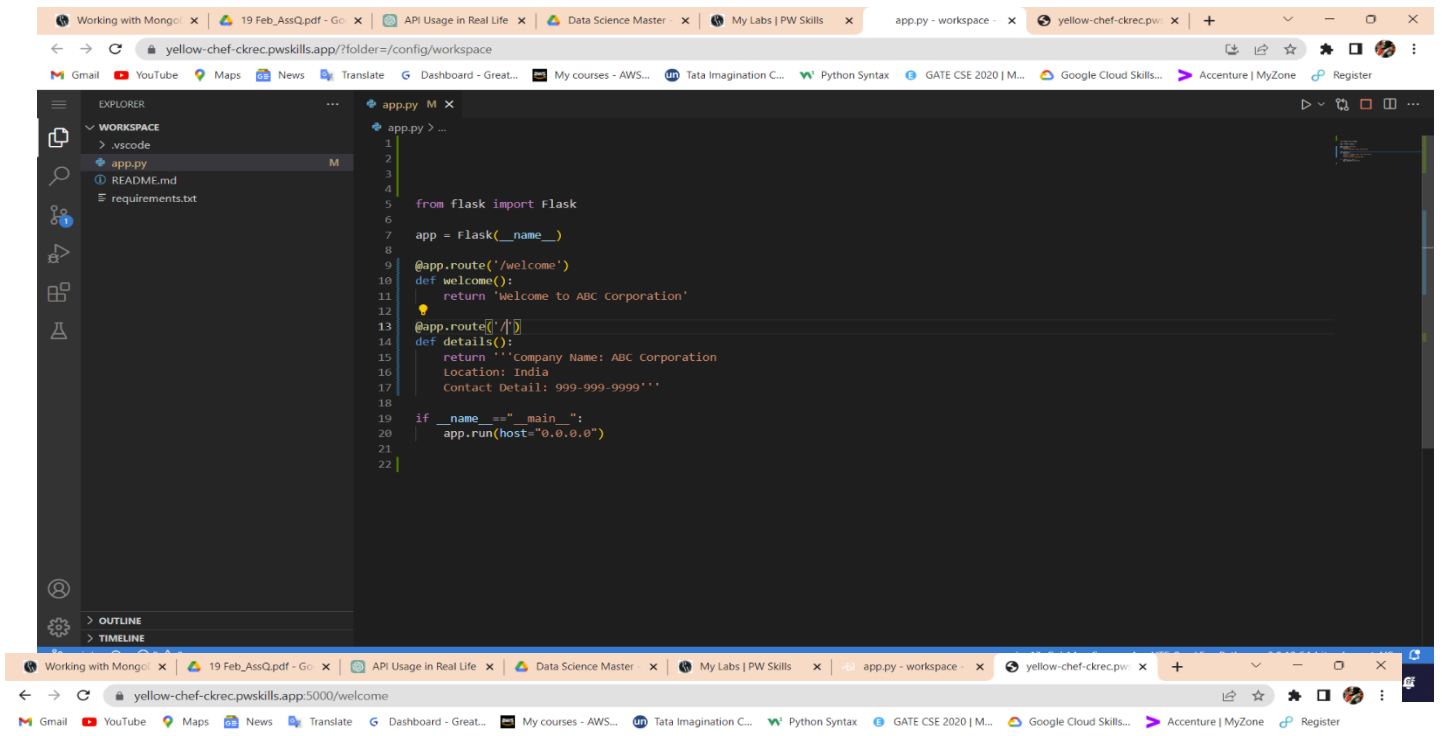
Q4. Create a `"/welcome"` route to display the welcome message "Welcome to ABC Corporation" and a `"/"` route to show the following details:

Company Name: ABC Corporation

Location: India

Contact Detail: 999-999-9999

Ans -



Welcome to ABC Corporation



Company Name: ABC Corporation Location: India Contact Detail: 999-999-9999

Ans -

Welcome to the Home Page!
[Go to Welcome Page](#)
[Go to Company Details Page](#)

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yellow-chef-ckrec.pwskills.app:5000/company

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Company Name: ABC Corporation
 Location: India
 Contact Detail: 999-999-9999