

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

Flask is a micro web framework in Python that provides a simple and flexible way to build web applications. It is used for web development and allows developers to build and deploy web applications quickly and easily. It is not used for data visualization, machine learning, or gaming development.

Advantages of flask:

- 1) It has a simpler and more straightforward design compared to full-stack frameworks like Django.
- 2) it is very Light weight
- 3) there are a lot of example and documentation for flask
- 4) It is very flexible and scalable

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

In []:

```
from flask import Flask

@app.route("/")
def hello_world1():
    return "<h1>Hello, World!</h1>"
if __name__ == "__main__":
    app.run(host="0.0.0.0")
```



Hello, World!

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

App routing in Flask refers to the process of defining the URL patterns and their corresponding view functions in a Flask application. It allows the application to handle HTTP requests and map them to specific functions that generate a response to the client. In Flask, app routes are defined using the `@app.route` decorator, which is used to bind a URL pattern to a view function. The decorator takes a URL pattern as its argument and associates it with the function decorated by it. When a client requests a URL that matches the pattern, Flask calls the associated function to generate a response. By app routing we bind the correct path to the client so that if the client visits that path then he/she can see the data.

Q4. Create a “/welcome” route to display the welcome message “Welcome to ABC Corporation” and a “/” route to show the following details:

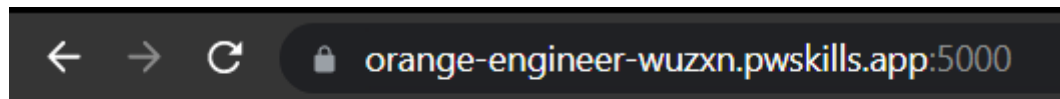
Company Name: ABC Corporation

Location: India

Contact Detail: 999-999-9999

In []:

```
from flask import Flask
app = Flask(__name__)
@app.route("/")
def welcome():
    return "Welcome to ABC Corporation "
if __name__ == "__main__":
    app.run(host="0.0.0.0")
```



Welcome to ABC Corporation



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

Q5. What function is used in Flask for URL Building? Write a Python code to demonstrate the working of the url_for() function.

In Flask, the url_for() function is used for URL building. It gives the url for for a particular function in the code

In []:

```
from flask import Flask, url_for

app = Flask(__name__)

@app.route('/')
def index():
    return 'Hello, World!'

@app.route('/user/<username>')
def userProfile(username):
    return 'User profile page for %s' % username

with app.test_request_context():
    print(url_for('index'))
    print(url_for('userProfile', username='raj'))
```