**Assignment 7:**

**Create a simple web service and write distributed application(calculator) to consume the Web Service.**

**webservice.py**

from flask import Flask, request

app = Flask(\_\_name\_\_)

@app.route('/add', methods=['POST']) def add(): data = request.get\_json() num1 = data['num1'] num2 = data['num2'] result = num1 + num2 return {'result': result}

if \_\_name\_\_ == '\_\_main\_\_': app.run()

**Output:**

PS C:\Users\aarad\OneDrive\College\DS> python webservice.py

>>

\* Debug mode: off

WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead. \* Running on http://127.0.0.1:5000

Press CTRL+C to quit

127.0.0.1 - - [21/Mar/2025 10:36:39] "GET / HTTP/1.1" 404 -

127.0.0.1 - - [21/Mar/2025 10:36:39] "GET /favicon.ico HTTP/1.1" 404 -

127.0.0.1 - - [21/Mar/2025 10:37:07] "POST /add HTTP/1.1" 200 -

**app.py**

import requests

def add\_numbers(num1, num2):

url = 'http://localhost:5000/add' # Replace with the actual URL of the web service data = { 'num1': num1,

'num2': num2

}

response = requests.post(url, json=data) result = response.json()['result'] return result

# Example usage result = add\_numbers(5, 10)

print(f"The result of adding 5 and 10 is: {result}")

**Output:**

PS C:\Users\aarad\OneDrive\College\DS> python app.py

The result of adding 5 and 10 is: 15

PS C:\Users\aarad\OneDrive\College\DS>