## **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>