Assignment No. 7

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Subject: LP-V (Distributed System)

Code: app.py

```python
from flask import Flask, request, jsonify

app = Flask(_name_)

@app.route('/add', methods=['POST'])
def add():
    data = request.get_json()
    num1 = data['num1']
    num2 = data['num2']
    num3 = num1 + num2
    return jsonify({"result": num3})

@app.route('/multiply', methods=["POST"])
def multiply():
    data = request.get_json()
    num1 = data['num1']
    num2 = data['num2']
    num3 = num1*num2
    return jsonify({"result": num3})

if__name__ == '__main__':
    app.run(debug=True)

```

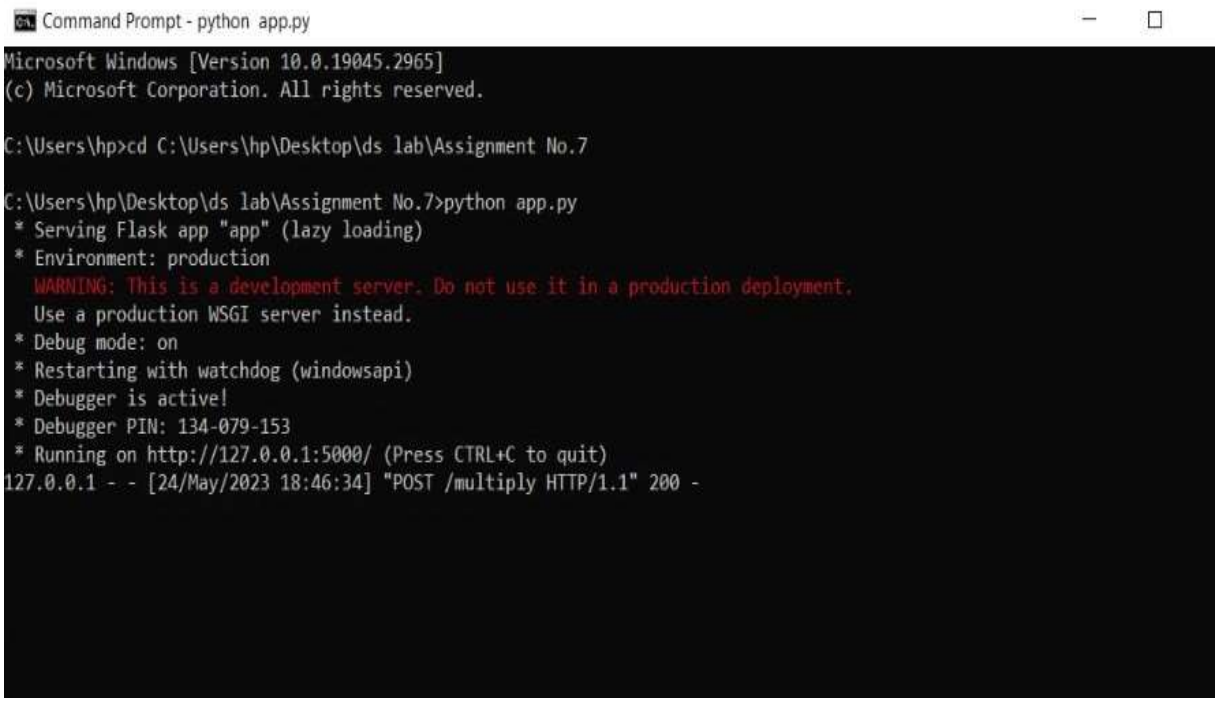
client.py

```python
import requests

url = 'http://127.0.0.1:5000/'

def add_num(num1 , num2 ):
    endpoint = url + '/add'
    data = {"num1":num1, "num2":num2}
    response = requests.post(endpoint, json=data)
    result = response.json()['result']
    return result

def multiply_num(num1, num2):
    endpoint = url + '/multiply'
    data = {"num1": num1, "num2": num2}
    response = requests.post(endpoint, json=data)
    result = response.json()["result"]
    return result

state = True
while(state):
    try:
        print("Enter the first number:")
        num1 = int(input())
        print("Enter the second number:")
        num2 = int(input())

        print("Do you want \n1.Add \n2. Multiply \n3. Exit")
        choice = int(input(""))
        if(choice==1):
            print(add_num(num1, num2))
            print("Do you wish to continue? (Yes, No)")
            if (input().lower()=="no"):
```

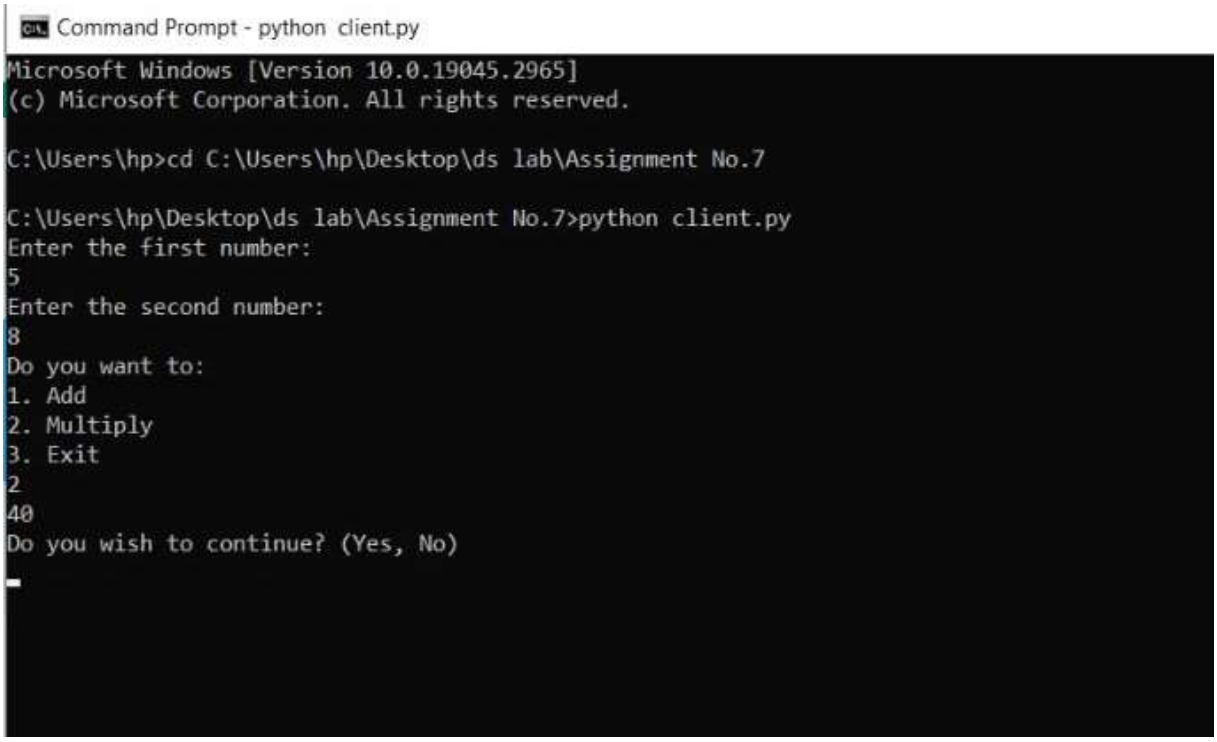
```
            if (input().lower()=="no"):
                state=False
        elif(choice==3):
            print("Thank you for using the service")
            state=False
        else:
            print("Invalid Input")
        if(state):
            print("New Calculation")
        print("_"*10,end="\n")
    except:
        print("Encounted Error")
        print("Restarting interface", end="\n")

```

Output:

app.py:



client.py:


Command Prompt - python client.py
Microsoft Windows [Version 10.0.19045.2965]
(c) Microsoft Corporation. All rights reserved.
C:\Users\hp>cd C:\Users\hp\Desktop\ds lab\Assignment No.7
C:\Users\hp\Desktop\ds lab\Assignment No.7>python client.py
Enter the first number:
5
Enter the second number:
8
Do you want to:
1. Add
2. Multiply
3. Exit
2
40
Do you wish to continue? (Yes, No)