

## api.py

```
1 from flask import Flask, request
2
3
4 app = Flask(__name__)
5
6
7 @app.route("/add", methods=["POST"])
8 def add():
9     data = request.get_json()
10    num1 = data["num1"]
11    num2 = data["num2"]
12    result = num1 + num2
13    return str(result)
14
15
16 @app.route("/subtract", methods=["POST"])
17 def subtract():
18     data = request.get_json()
19     num1 = data["num1"]
20     num2 = data["num2"]
21     result = num1 - num2
22     return str(result)
23
24
25 @app.route("/multiply", methods=["POST"])
26 def multiply():
27     data = request.get_json()
28     num1 = data["num1"]
29     num2 = data["num2"]
30     result = num1 * num2
31     return str(result)
32
33
34 @app.route("/divide", methods=["POST"])
35 def divide():
36     data = request.get_json()
37     num1 = data["num1"]
38     num2 = data["num2"]
39     result = num1 / num2
40     return str(result)
41
42
43
44 if __name__ == "__main__":
45     app.run(debug=True)
46
```

~\a7\app.py

```
1 from flask import Flask, render_template, request
2 import requests
3 import json
4
5
6 app = Flask(__name__)
7
8
9 @app.route("/")
10 def home():
11     return render_template("index.html")
12
13
14 @app.route("/calculate", methods=["POST"])
15 def calculate():
16     num1 = int(request.form["num1"])
17     num2 = int(request.form["num2"])
18     operation = request.form["operation"]
19
20
21     payload = {"num1": num1, "num2": num2}
22
23
24     if operation == "add":
25         url = "http://localhost:5000/add"
26     elif operation == "subtract":
27         url = "http://localhost:5000/subtract"
28     elif operation == "multiply":
29         url = "http://localhost:5000/multiply"
30     elif operation == "divide":
31         url = "http://localhost:5000/divide"
32
33
34     response = requests.post(url, json=payload)
35     result = json.loads(response.text)
36
37
38     return render_template("result.html", result=result)
39
40
41
42
43 if __name__ == "__main__":
44     app.run(debug=True, port=3000)
45
46
47
```

## templates\index.html

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Calculator Web App</title>
5   </head>
6   <body>
7     <h1>Calculator Web App</h1>
8     <form action="/calculate" method="POST">
9       <label for="num1">Number 1:</label>
10      <input type="number" id="num1" name="num1" required /><br />
11
12      <label for="num2">Number 2:</label>
13      <input type="number" id="num2" name="num2" required /><br />
14
15      <label for="operation">Operation:</label>
16      <select id="operation" name="operation" required>
17        <option value="add">Addition</option>
18        <option value="subtract">Subtraction</option>
19        <option value="multiply">Multiplication</option>
20        <option value="divide">Division</option></select>
21      <br />
22
23      <input type="submit" value="Calculate" />
24    </form>
25  </body>
26 </html>
27
28
29
30
```

## templates\result.html

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Calculator Web App - Result</title>
5   </head>
6   <body>
7     <h1>Calculator Web App - Result</h1>
8     <p>The result is: {{ result }}</p>
9     <a href="/">Go Back</a>
10  </body>
11 </html>
12
13
```