



BHARATIYA VIDYA BHAVAN'S
SARDAR PATEL INSTITUTE OF TECHNOLOGY
MUNSHI NAGAR, ANDHERI (WEST), MUMBAI – 400 058.
(Autonomous College Affiliated to University of Mumbai)
MASTER OF COMPUTER APPLICATIONS

CLASS: F.Y. MCA

SEM: I

COURSE CODE: MC504

SUBJECT NAME: WEB TECHNOLOGY LAB

ROLL NO.: 11

BATCH: A

NAME: VIRAJ RAJENDRA DHUMAL

EXPERIMENT NO: 08

EXPERIMENT TITLE: Write a program to add two numbers using rest api and express js.

Objective:

In this web app, there is only going to have one client side html file and two server side node.js files. The html file will have two forms. One with a GET method that submits a name to the server and the server will respond with a greeting message. The other form with POST method that submits two numbers to the server and the server will respond with the sum of the two numbers.

DATE TURN 1:

DATE TURN 2:

PI1: Experime ntal Procedure s	PI2: Designing skills	PI3: Debuggin g capacity & Efforts taken	PI4: Results and Q&A	PI5: Lab Ethics	Marks Per Experime nt	
2	2	2	2	2	10	



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Source code:

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <style>
    * {
      margin: 0;
      padding: 0;
    }
    .container {
      background-color: rgb(184, 168, 255);
      font-family: Arial, Helvetica, sans-serif;
      font-size: large;
    }

    .panel {
      padding: 100px;
      text-align: center;
      height: 30em;
      border: 1px solid black;
    }

    .btn {
      font-size: large;
      padding: 20px 50px;
      font-family: Arial, Helvetica, sans-serif;
      cursor: pointer;
      border-radius: 15px;
    }
  </style>
</head>
<body>
  <div class="container">
    <div class="panel">
      <div class="btn">
        <button>Click Here</button>
      </div>
    </div>
  </div>
</body>
</html>
```



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```
.txt {
    font-size: large;
    padding: 20px 10px;
    border-radius: 20px;
    background-color: white;
    border: 2px solid black;
    font-family: Arial, Helvetica, sans-serif;
    width: 20%;
}

#alert {
    color: white;
    background-color: red;
    display: none;
    padding: 20px;
    margin-left: 25%;
    margin-right: 25%;
}

form {
    margin: 50px;
}

.plus {
    font-weight: bold;
    font-size: 20px;
}

</style>
</head>
<body>
    <div class="container">
        <div class="panel">

            <form action="/svc/greeting" method="get" onsubmit="return
handleClick()">
```



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```
<input type="text" name="firstName" placeholder="First
Name" class="txt" id="txtBox">
    <button type="submit" class="btn">Submit</button>
</form>
<form action="/svc/add" method="post" onsubmit="return
handlePost()">
    <input type="text" name="num1" class="txt"
placeholder="Num 1" id="txtNum1">
    <span class="plus">PLUS</span>
    <input type="text" name="num2" class="txt"
placeholder="Num 2" id="txtNum2">
    <button type="submit" class="btn">Add</button>
</form>
</div>
</div>
</body>

<script>
    function handleClick() {
        const txtBox = document.getElementById('txtBox');

        if (isEmpty(txtBox)) {
            return false;
        }

        return true;
    }

    function handlePost() {
        const txtNum1 = document.getElementById('txtNum1');
        const txtNum2 = document.getElementById('txtNum2');

        if (isEmpty(txtNum1)) {
```



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```
        return false;
    }
    if (isEmpty(txtNum2)) {
        return false;
    }
}

function isEmpty(inp) {
    if (inp.value == '') {
        inp.placeholder = 'Please enter';
        inp.style.border = '4px solid red';
        return true;
    }

    inp.placeholder = 'Please enter';
    inp.style.border = '2px solid black';
    return false;
}
</script>
</html>
```

server.js

```
const express = require('express');
const bodyParser = require('body-parser');
const app = express();
const service = require('./node1/service.js');
app.use(bodyParser.json());
app.use(bodyParser.urlencoded({
    extended: true
}));
const port = 3333;

app.use(express.static('./public'));
service.attachService(app);

app.listen(port, () => {
```



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```
console.log('Server running at http://localhost:3333');  
})
```

service.js

```
function greeting(req, res) {  
  let fn = req.query.firstName;  
  res.send("Greetings," + fn);  
}  
  
function addition(req, res) {  
  let n1 = req.body.num1;  
  let n2 = req.body.num2;  
  sum = parseInt(n1) + parseInt(n2);  
  res.send(`${n1} plus ${n2} is equal to ${sum}`);  
}  
  
const attachService = function (app) {  
  app.get('/svc/greeting', greeting);  
  app.post('/svc/add', addition);  
};  
  
exports.attachService = attachService;
```

Output:



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Document x +

localhost:3333

First Name Submit

Num 1 PLUS Num 2 Add

Type here to search 26°C Smoke 17:13 15-01-2023

Document x +

localhost:3333

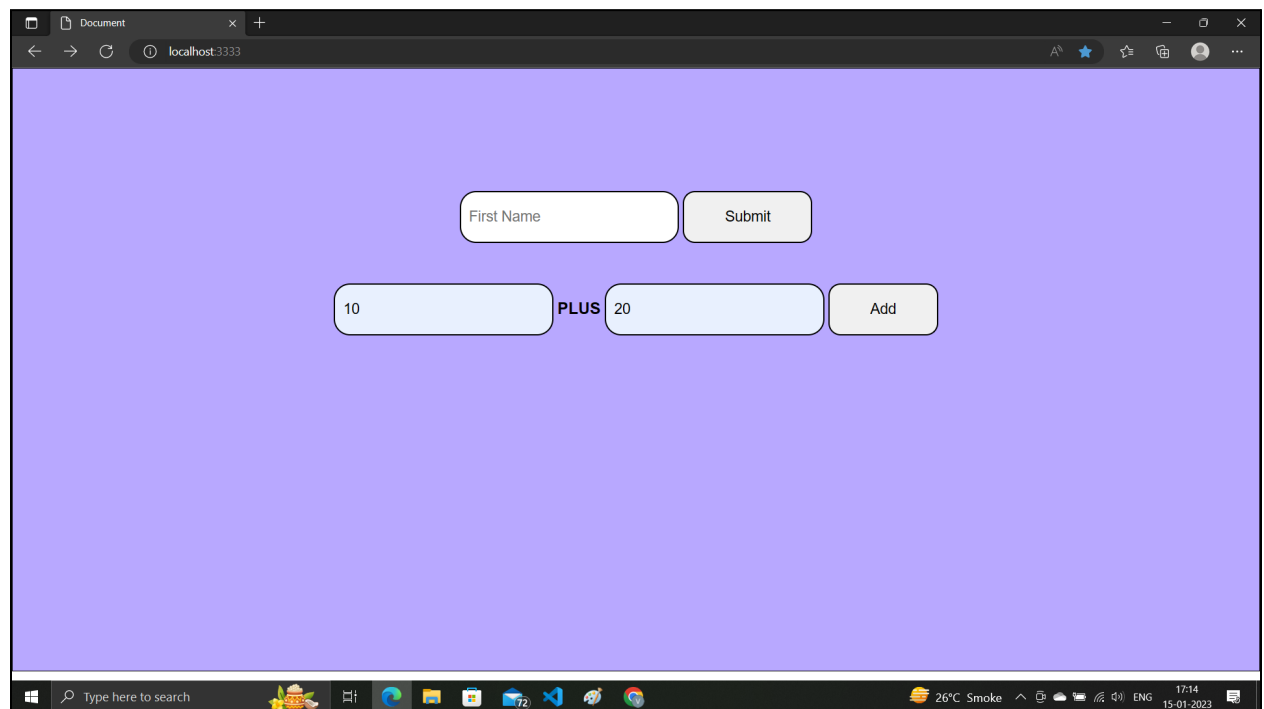
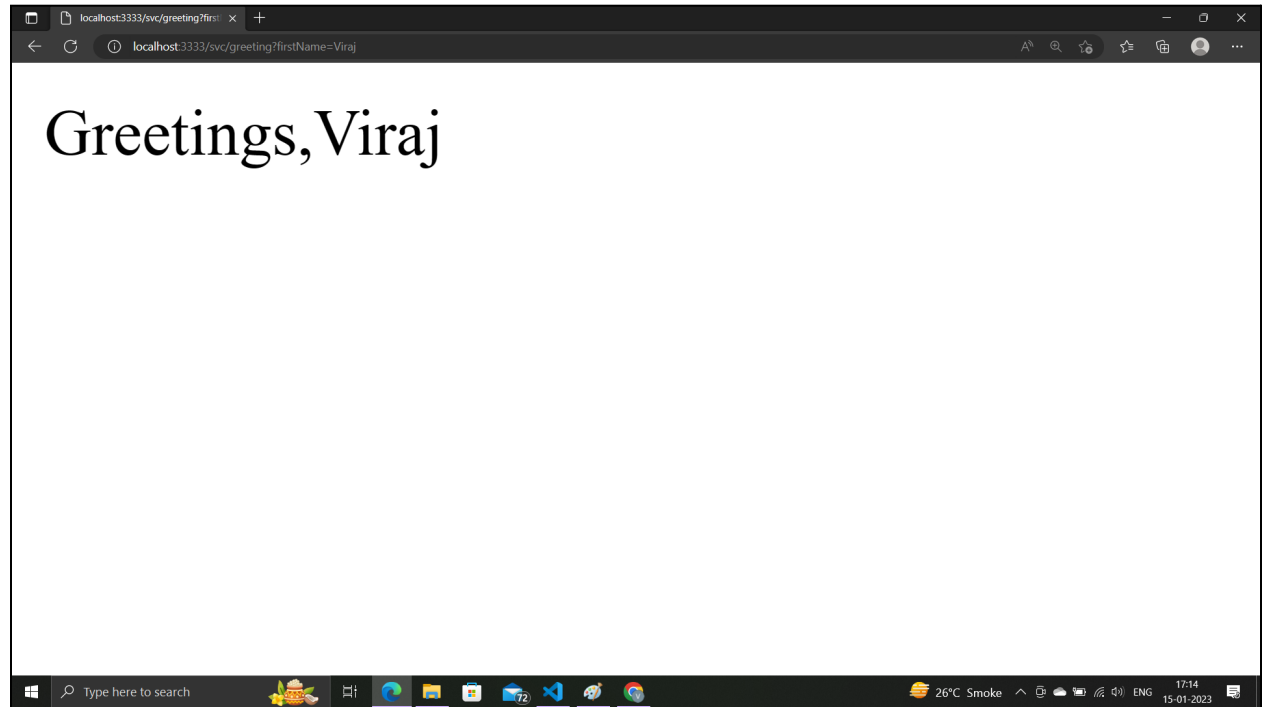
Viraj Submit

Num 1 PLUS Num 2 Add

Type here to search 26°C Smoke 17:13 15-01-2023



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