CLASS: F.Y. MCA   **SEM: I**   **AY:24-25**

COURSE CODE: MC504   **SUBJECT NAME: WEB TECHNOLOGY LAB**

ROLL NO.: 2024510001   **BATCH: A**

NAME: Atharva Vasant Angre

EXPERIMENT NO: 08

EXPERIMENT TITLE: Create API.

Problem Statement

Develop a Node.js application using Express to demonstrate the implementation of basic API endpoints. These APIs should handle:

A GET request to greet a user by their first name.

A POST request to calculate the sum of two numbers.

The application should include a frontend HTML form to interact with the APIs and a backend service to process the requests.

Code:

Home.html

```html
<!DOCTYPE html>
<html>
  <head>
    <title>LAB 8</title>
  </head>
  <body>
    <form action="/greeting" method="GET">
      <input name="firstname" type="text" placeholder="First Name" />
      <button type="submit">Submit</button>
    </form>
    <br />
    <form action="/add" method="POST">
      <input name="num1" type="number" />
      <span>PLUS</span>
      <input name="num2" type="number" />
      <button type="submit">Submit</button>
    </form>
  </body>
</html>
```

Server.js

```javascript
const express = require("express");
const bodyParser = require("body-parser");
const service = require("./service.js");
const path = require("path");


const app = express();
```

```javascript
const port = 3000;

app.use(bodyParser.json());
app.use(
  bodyParser.urlencoded({
    extended: true,
  })
);

app.get("/", (req, res) => {
  res.sendFile("D:/SPIT-FYMCA/WT PRAC/LAB 8/API/home.html");
});

service.attachService(app);

app.listen(port, () => {
  console.log(`Server running at http://localhost:${port}`);
});
```

Service.js

```javascript
function greeting(req, res) {
  var greet = req.query.firstname;
  res.send("Greetings, " + greet);
}

function additon(req, res) {
  var n1 = req.body.num1;
  var n2 = req.body.num2;
  var sum = parseInt(n1) + parseInt(n2);
  res.send(n1 + " plus " + n2 + " = " + sum);
```

```
}


var attachService = function (app) {

  app.get("/greeting", greeting);

  app.post("/add", additon);

};

exports.attachService = attachService;
```

Outputs: