Name : Harikrushn D. Mistry

Roll No. : 61

Division : A

Subject : Nodejs

 $Assignment: \ Pratical-1$

Q1.

```
✓ ASSIGNMENT_1

                                 const express=require('express');
const app=express();
 > node_modules
                                         const app=express();
const path=require('path');
 ∨ Q1
 > node_modules
 > public
                                         app.use(express.static(path.join(__dirname,'public')));
app.get('/gethello',(req,res)=>{
    res.send("Hello NodeJS!!");
});
 {} package-lock.json
 {} package.json
                                         app.listen(3000);
 > Q4
 > Q5
  > Q9
  > Q10
```



NodeJS AJAX Example

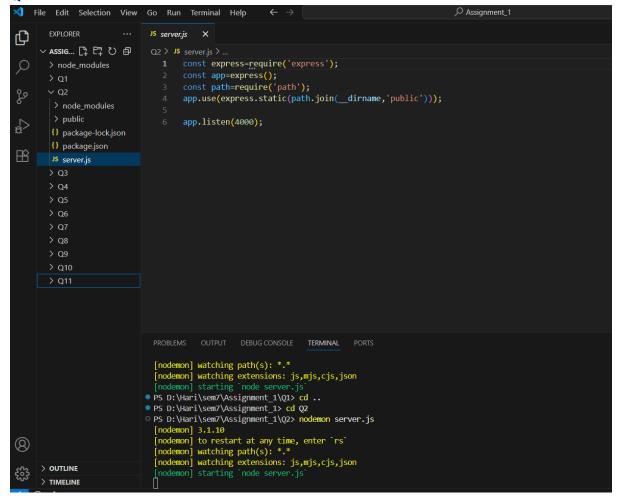
Get Hello

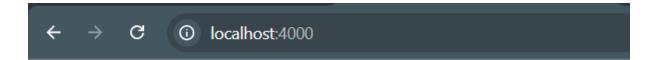


NodeJS AJAX Example

Get Hello

Hello NodeJS!!



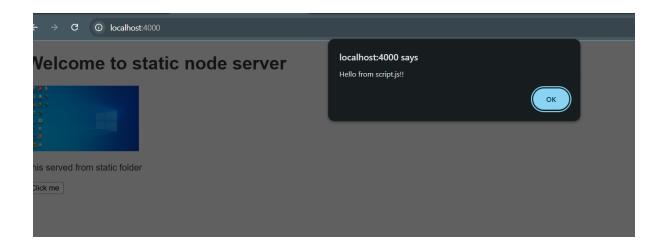


Welcome to static node server



This served from static folder

Click me



```
EXPLORER
                               JS script.js
     Q2 > public > JS script.js > 🛇 sayHello
                                       function sayHello(){
                                  1
        > node_modules
                                           alert("Hello from script.js!!");
       > Q1

√ Q2

         > node_modules
        ∨ public
         image.jpg
         o index.html
出
         JS script.js
         # style.css
        {} package-lock.json
        {} package.json
        JS server.js
       > Q3
       > Q4
       > Q5
       > Q6
       > Q7
       > Q8
```

```
Assignment 1
   Edit Selection View Go Run Terminal Help
                       JS app.js
∨ ASSIG... [] □ □
 > node modules
                              const { getResponse } = require('./chatbot');
 JS app.js
                                input: process.stdin,
  JS chatbot.js
                                output: process.stdout
 {} package-lock.json
 {} package.json
                              console.log(" Ŋ Welcome to the Library Assistant Chatbot!");
                              console.log("Type 'exit' to quit.");
 > Q8
                              function askQuestion() {
 > Q9
 > Q11
                                  const response = getResponse(input);
                                  console.log("  Bot:", response);
                                  if (input.toLowerCase().includes("exit") || input.toLowerCase().includes("bye")) {
                                    askQuestion(); // continue chatting
> OUTLINE
> TIMELINE
```

```
| File | Edit | Selection | View | Go | Run | Terminal | Help | C | Passignment | Pass
```

```
PS D:\Hari\sem7\Assignment_1> cd Q3
○ PS D:\Hari\sem7\Assignment 1\Q3> nodemon app.js
  [nodemon] 3.1.10
  [nodemon] to restart at any time, enter `rs`
  [nodemon] watching path(s): *.*
  [nodemon] watching extensions: js,mjs,cjs,json
  [nodemon] starting `node app.js
  Welcome to the Library Assistant Chatbot!
  Type 'exit' to quit.
  > You: book
 book
  🗑 Bot: We have books on many topics. Please specify the subject.
  > You: available
  available
  Bot: Yes, the book is available in the general section.
  > You: timing
 timing
 timing
  Bot: Library is open from 9 AM to 6 PM on weekdays.
  > You: membership
 membership
  🗑 Bot: To get a library membership, please fill the form at the front desk.
  🗑 Bot: To get a library membership, please fill the form at the front desk.
  🗑 Bot: To get a library membership, please fill the form at the front desk.
  > You: bye
 bve
  🗃 Bot: Goodbye! Have a nice day.
```

```
| Deficiency | State |
```

```
Bot: Goodbye! Have a nice day.

PS D:\Hari\sem7\Assignment_1\Q3> cd ..

PS D:\Hari\sem7\Assignment_1> cd Q4

PS D:\Hari\sem7\Assignment_1\Q4> nodemon zip.js

[nodemon] 3.1.10

[nodemon] to restart at any time, enter `rs`

[nodemon] watching path(s): *.*

[nodemon] watching extensions: js,mjs,cjs,json

[nodemon] starting `node zip.js`

Folder zipping succesfully to: D:\Hari\sem7\Assignment_1\Q4\myfolder.zip

[nodemon] clean exit - waiting for changes before restart
```

```
EXPLORER
                             JS unzip.js

✓ ASSIGNMENT_1

                             Q5 > JS unzip.js > ...
       > node_modules
                                    const { exec } = require('child_process');
                                    const path = require('path');
       > Q2
وړ
       > Q3
       > Q4
                                   const zipFilePath = path.join(__dirname, 'myfolder.zip');
const extractTo = path.join(__dirname, 'extracted_folder');
₽

✓ Q5

       > extracted_folder
                                   괌
       myfolder.zip
                                     : `unzip -o "${zipFilePath}" -d "${extractTo}"`;
       > Q6
                                    exec(unzipCommand, (err, stdout, stderr) => {
       > 08
       > Q9
                                        console.error(' Extraction error:', stderr);
       > Q10
                                      console.log(' Zip extracted successfully to:', extractTo);
                              PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
                                requireStack: []
                             Node.js v22.17.0
                            ● PS D:\Hari\sem7\Assignment_1\Q4> cd ..
                            PS D:\Hari\sem7\Assignment 1> cd Q5
                            PS D:\Hari\sem7\Assignment_1\Q5> nodemon unzip.js
                              [nodemon] 3.1.10
[nodemon] to restart at any time, enter `rs`
                              [nodemon] watching path(s): *.*
                              [nodemon] watching extensions: js,mjs,cjs,json
(2)
                               Zip extracted successfully to: D:\Hari\sem7\Assignment_1\Q5\extracted_folder
     > OUTLINE
                              [nodemon] clean exit - waiting for changes before restart
     > TIMELINE
```

```
File Edit Selection View Go Run Terminal Help
      EXPLORER
                           JS unlink.js × ≡ test.txt
Ф
     ∨ ASSIG... 📮 📮 ひ 🗗
                             const fs = require('fs');
      > node_modules
                                 const util = require('util');
      > Q1
      > Q2
      > Q3
                                 const unlinkAsync = util.promisify(fs.unlink);
      > 04
      > Q5
                                 function deleteFile(filePath) {
      V 06
胎
                                   unlinkAsync(filePath)
      ≡ test.txt
                                   .then(()=>console.log(`File deleted successfully: ${filePath}`))
       JS unlink.js
                                   .catch((err)=>console.error(`Error deleting file: ${err.message}`))
      > Q7
      > Q8
      > Q9
      > Q10
                                  // Example usage: replace 'test.txt' with your file path
                                 deleteFile('test.txt');
      > Q11
                                    OUTPUT DEBUG CONSOLE TERMINAL
                           Node.js v22.17.0
                          PS D:\Hari\sem7\Assignment 1\Q4> cd ...
                          • PS D:\Hari\sem7\Assignment_1> cd Q5

    PS D:\Hari\sem7\Assignment_1\Q5> nodemon unzip.js

                            [nodemon] 3.1.10
                            [nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
                            [nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node unzip.js`
                            Zip extracted successfully to: D:\Hari\sem7\Assignment_1\Q5\extracted_folder
(A)
                          PS D:\Hari\sem7\Assignment_1\Q5> cd ...
    > OUTLINE
                          PS D:\Hari\sem7\Assignment 1> cd Q6
     > TIMELINE
                          ○ PS D:\Hari\sem7\Assignment_1\Q6>
  \otimes 0 \wedge 0
PROBLEMS
                         DEBUG CONSOLE
                                             TERMINAL
                                                          PORTS
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node unzip.js`
 Zip extracted successfully to: D:\Hari\sem7\Assignment 1\Q5\extracted folder
[nodemon] clean exit - waiting for changes before restart
PS D:\Hari\sem7\Assignment 1\Q5> cd ...
PS D:\Hari\sem7\Assignment 1> cd Q6
PS D:\Hari\sem7\Assignment 1\Q6> nodemon unlink.js
[nodemon] 3.1.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node unlink.js`
File deleted successfully: test.txt
[nodemon] clean exit - waiting for changes before restart
```

```
EXPLORER
                         JS fetch.js
                        Q7 > J5 fetch.js > 🕏 fetchGoogle
_____ const fetcn = require( node-fetch );
ASSIGNMENT 1
> node modules
> Q1
                                 async function fetchGoogle() {
> 02
> Q4
                                       throw new Error(`HTTP error! status: ${response.status}`);
> Q5
                                     console.log('Fetched Google homepage HTML length:', body.length);
JS fetch.is
                                     console.log(body);
 {} package-lock.json
{} package.json
> 08
> Q9
> Q10
                                 fetchGoogle();
```

```
5 D:Wari\sem7Assigment_1\color{1} cdemon fetch.js
[rodewon] 1 3.1.10
[rodewon] to restart at any time, enter 'rs'
[rodewon] watching path(s): *-
[rodewon] watching path(s): *-
[rodewon] watching path(s): *-
[rodewon] starting 'rode Fetch.js
[rodewon] starting 'rodewon]
[rodewon] starting 'ro
```

```
PS D:\Hari\sem7\Assignment_1\Q8> nodemon server,js

[nodemon] 3.1.10

[nodemon] to restart at any time, enter `rs`

[nodemon] watching path(s): *.*

[nodemon] watching extensions: js,mjs,cjs,json

[nodemon] starting `node "server js" server.js`

test

[nodemon] clean exit - waiting for changes before restart

[]
```

```
EXPLORER
                            JS file.js
                            Q9 > J5 file.js > 😚 fs.writeFile('Hello, Node.js!\n') callback > 😚 fs.appendFile('This is appended text.\n') callback > 😚 fs.readFile
                                    const fs = require('fs');
                                     const path = require('path');
 > 01
 > Q2
                                    const filePath = path.join(__dirname, 'demo.txt');
 > Q3
 > 04
                                    fs.writeFile(filePath, 'Hello, Node.js!\n', (err) => {
   if (err) return console.error('Error writing file:', err);
 > Q5
                                       console.log(' File created and written to.');
 > Q6
                                       fs.appendFile(filePath, 'This is appended text.\n', (err) => {
                                          if (err) return console.error('Error appending file:', err);
                                          console.log(' Text appended.');
JS file.js
 ≡ renamed-demo.txt
                                          fs.readFile(filePath, 'utf8', (err, data) => {
                                            if (err) return console.error('Error reading file:', err);
console.log(' File content:\n', data);
> Q11
                                            const newPath = path.join(_dirname, 'renamed-demo.txt');
fs.rename(filePath, newPath, (err) => {
                                               if (err) return console.error('Error renaming file:', err);
console.log(' File renamed.');
                                               if (fs.existsSync(newPath)) {
   console.log(' File exists after renaming.');
```

```
PS D:\Hari\sem7\Assignment 1\Q9> nodemon file.js
[nodemon] 3.1.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] 3.1.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node file.js`
[nodemon] starting `node file.js`
 File created and written to.
 File created and written to.
 Text appended.
 File content:
 Hello, Node.js!
 File content:
 Hello, Node.js!
This is appended text.
This is appended text.
 File renamed.
 File exists after renaming.
 File exists after renaming.
[nodemon] clean exit - waiting for changes before restart
```

```
✓ ASSIGNMENT_1
                               Q10 > JS globalVariable.js > .
                              7 setTimeout(() => {
9 }, 1000);
 > node_modules
 > Q1
                                 10
11 let count = 0;
12 const intervalId = setInterval(() => {
> Q2
 > Q3
 > Q4
                                         console.log(`[] setInterval: count = ${count}^);
                                          if (count === 3) {
  clearInterval(intervalId);
  console.log(' Interval cleared');
 > Q6
 > Q7
 > Q8
                                        }, 1000<mark>)</mark>;
                                 console.log(' Process PID:', process.pid);
console.log(' Platform:', process.platform);
console.log(' Node version:', process.version);
                                         console.log('@' NODE_ENV:', process.env.NODE_ENV || 'not set');
```

Q.11 env-checker

