MSc. ICT -3rd Sem

Roll No. 10

Isha Dhameliya

1. Develop nodejs application with following requirements:

Develop a route "/gethello" with GET method. It displays "Hello NodeJS!!" as response.

Make an HTML page and display.

Call "/gethello" route from HTML page using AJAX call. (Any frontend AJAX call API can be used.)

AJAX Call to /gethello

Click to Get Data

Hello NodeJS

2. Develop a web server which serves static resources.

Hello From HTML Page

3. Develop a module for domain specific chatbot and use it in a command line application.

```
> V TERMINAL

[node-Que_3 + V]

[nodemon] starting `node Chatboat.js`
You==>hi
hi
Bot ==> Hi!
You==>how do you do?
how do you do?
Bot ==> I'm fine ^_^
You=>
```

4. Write a program to create a compressed zip file for a folder.

```
TERMINAL

[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 que4.js`
file compressed!!
[nodemon] clean exit - waiting for changes before restart
```

5. Write a program to extract a zip file.

```
compressed='./data.txt.g
                                  const decompressed='./data.txt';
                                   const input=fs.createReadStream(compressed)
                                  const output=fs.createWriteStream(decompressed)
  ≣ data.txt
  ≡ data.txt.gz
                                  input.pipe(zlib.createGunzip().pipe(output));
  JS que5.js
                                       console.log("File decompressed!!");
  > Que_8
                           PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
 > Que_9
 > Que_10
                          > < TERMINAL
                                                                                                                          \nearrow node - Que_5 + \lor \square \square \cdots
 {} package-lock.json
                               PS D:\Assignment_1\Que_5> nodemon que5
                                [nodemon] 3.1.10
[nodemon] to restart at any time, enter `rs`
 {} package.json
                                [nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
> OUTLINE
                                File decompressed!!
> NPM SCRIPTS
```

6. Write a program to promisify fs.unlink function and call it.

```
> node_modules
                               fs.writeFile('demoFile.txt', 'This is Temporary File Creation', function (err) {
 > Que_1
 > Que_2
                                 console.log('File Created...');
 > Que_3
 > Que_4
                               unlinkFile('demoFile.txt')
 > Que_5
                                 .then(() => {
 ∨ Que_6
                                   console.log('File Deleted...');
  JS que6.js
                                  console.error('Error deleting file:', err);
 > Que_9
                          console.log('File Deletion Process Started...');
                         PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
 {} package-lock.json
                       > V TERMINAL
                                                                                                               ☑ node - Que_6 + ✓ Ⅲ 🛍
 {} package.json
                            [nodemon] watching path(s): *.*
                            [nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node que6.js`
                            File Deletion Process Started...
                            File Deleted...
                            File Created...
> OUTLINE
> NPM SCRIPTS
```

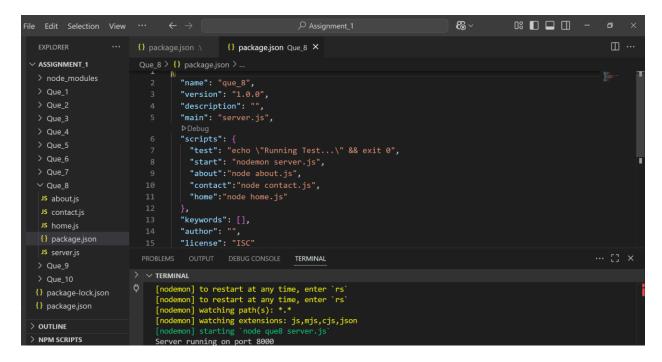
7. Fetch data of google page using note-fetch using async-await model.

```
> node_modules
                                                                                                                                             async function fetchGoogleHomePage() {
       > Que_1
       > Que 2
                                                                                                                                                          const response = await fetch('https://www.google.com');
       > Que 3
                                                                                                                                                             const data = await response.text();
                                                                                                                                                           console.log(data);
                                                                                                                                                            console.error('Error fetching Google page:', error.message);
      ∨ Que_7
                                                                                                              PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                       > V TERMINAL

    □ node - Que_7 + ∨ □ 
    □ ···

                                                                                                                             ogle.jl={bfl:0,dw:false,eli:false,ine:false,ubm:false,uwp:true,vs:false};})();(function(){var pmc='{\x22d\x22
     {} package-lock.json
                                                                                                                             :{},\x22sb_he\x22:\x22client\x22:\x22heirloom-hp\x22,\x22dh\x22:true,\x22ds\x22:\x22\x22,\x22host\x22:\x22go
     {} package.json
                                                                                                                             ogle.com\\ x22,\\ x22iponp\\ x22:true,\\ x22msgs\\ x22:\\ x22cib1\\ x22:\\ x22clear Search\\ x22,\\ x22dym\\ x22:\\ x22clind you mean:\\ x22msgs\\ x22:\\ x22cib1\\ x22cib1\\ x22:\\ x22cib1\\ x22
                                                                                                                             \x22,\x22lcky\x22:\x22I\\u0026#39;m Feeling Lucky\x22,\x22lm1\x22:\x22Learn more\x22,\x22psrc\x22:\x22This se
                                                                                                                              arch was removed from your \\u003Ca \href\x3d\\\x22/\history\\\x22\\u003EWeb History\\u003C/a\\u003E\x22,\x22ps
                                                                                                                               r1\x22:\x22Remove\x22,\x22Sbit\x22:\x22Search by image\x22,\x22Srch\x22:\x22Google Search\x22\},\x22Svr\x22:\{\} 
                                                                                                                              , x22pq x22: x22, x22pf x22: [], x22stok x22: x22fuZcmpEsF_iByW9Wq_6hjd-K92U x22\}]'; google.pmc=JSON.parsetime for the property of the prope
                                                                                                                              (pmc);})();</script></body></html>
> OUTLINE
 > NPM SCRIPTS
```

8. Set a server script, a test script and 3 user defined scripts in package.json file in your nodejs application.



9. A program which calls useful functions in fs modile.

```
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node app.js`
file written successfully...
appending data successfully...
file content:
  hello,this is a same file..
Appending more text.

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

10. A program which uses global objects in nodejs.

```
{} package.json
                                                  JS que10.js X

✓ ASSIGNMENT_1

                             Que_10 > JS que10.js > ...
                               9 setTimeout(() => {
                                    console.log('1 seconds passed');
console.log('App name from global:', global.myAppName);
 > Que_1
                                      console.log('Memory usage:', process.memoryUsage());
 > Que_4
                                   }, 1000);
                              console.log('Running on platform:', process.platform);
 > Oue 7
                                     console.log('Environment:', process.env);
 ∨ Que_8
 JS about.js
                            PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
 JS contact.js
                          > V TERMINAL

    □ node - Que_10 + ∨ □ □ □ ··

  JS home.js
                          {} package.json
 JS server.js
                                 Current directory: D:\Assignment_1\Que_10
                                 Running on platform: win32
                                 Environment: {
                                   ALLUSERSPROFILE: 'C:\\ProgramData',
APPDATA: 'C:\\Users\\IT CARE\\AppData\\Roaming',
CHROME_CRASHPAD_PIPE_NAME: '\\\.\\pipe\\crashpad_3148_RDPUUACRYDNZXFJA',
{} package-lock.json
                                   COLORTERM: 'truecolor',
CommonProgramFiles: 'C:\\Program Files\\Common Files',
'CommonProgramWiles(x86)': 'C:\\Program Files (x86)\\Common Files',
CommonProgramWile32: 'C:\\Program Files\\Common Files',
{} package.json
> OUTLINE
> NPM SCRIPTS
```

```
JS que10.js X
 ASSIGNMENT_1
                       console.log('1 seconds passed');
                               console.log('App name from global:', global.myAppName);
                              console.log('Memory usage:', process.memoryUsage());
 > Que_4
                      14 }, 1000);
 > Que_5
                            console.log('Running on platform:', process.platform);
                            console.log('Environment:', process.env);
                     PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                      > V TERMINAL
                    {} package.json
                          1 seconds passed
                         App name from global: NodeGlobalDemo
                          Memory usage: {
    rss: 34066432,
    heapTotal: 5758976,
    heapUsed: 4768664,
    external: 1603981,
 {} package-lock.json
 {} package.json
OUTLINE
                            arrayBuffers: 10691
> NPM SCRIPTS
```

11. Develop a useful package and publish it on npmjs.com