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ROLL NO: 09

SUB: Open Source Web Devlopment

STD: ICT 3rd

QUTION: 1

- 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

Call /gethello

hello nodejs...

2. Develop a web server which serves static resources.



Welcome to the static server!!!

This is a HTML Page....

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

```
PS B:\ict_09\que3> node app.js
chatbot Started.. Type your messages below::
You: hello
Bot: hello! How can i Assist You Today??
You: How are You?
Bot: sorry, I don't understand that. can you ask something else?
You: bye
Bot: Goodbye! Have a greate day!
```

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

```
₃ fetchdata.js
                                                                                                                      us app.js que9
                                                                                                                                                                              յց globalObj.js
                                         que4 > us zip.js > ...

1 const fs = require("fs");
       ✓ ICT_09
         > 🖿 file
         > node_modules
         ∨ 🖝 que1
          > 🧓 public
             us app.js
          ∕ 🗁 aue2
                                                   const input = fs.createReadStream(sourceFile);
const output = fs.createWriteStream(compressedFile);
           v 🥽 public
             us app.js
         ∨ 庙 que3
             ₃ app.js
             JS chat.js
         ∨ 🗁 que4
            example.txt
             example.txt.gz
             Js zip.js
         > 🖿 que5
         > 🖿 que6
         > u que7
         > = que8
         > que9
                                          PS B:\ict_09\que1> cd ..
         ∨ 🗁 que10
                                          PS B:\ict_09> cd que2
             Js globalObj.js
                                          PS B:\ict_09\que2> nodemon app
         > que11
                                          [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`
            package-lock.json
                                          PS B:\ict_09\que2> cd ..
PS B:\ict_09\que2> cd que3
PS B:\ict_09\zero ad que3
PS B:\ict_09\que3> node app.js
Chatbot Started.. Type your messages below::
                                          Bot: hello! How can i Assist You Today??
                                           You: How are You?
                                          Bot: sorry, I don't understand that. can you ask something else?
                                          You: bye Bot: Goodbye! Have a greate day!
                                        PS B:\ict_09\que3> cd ..
                                        PS B:\ict_09> cd que4
                                        PS B:\ict_09\que4> node zip.js
compressed example.txt=> example.txt.gz
PS B:\ict_09\que4>
8
```

5. Write a program to extract a zip file.

```
que5 > Js unzip.js > ...
                              const zlib = require("zlib");
 > node_modules
 ∨ 🗁 que1
  > 🛅 public
    us app.js
 ∨ 🗁 que2

✓ Modern public

                             const output = fs.createWriteStream(decompressedFile);
     index.html
                             input.pipe(zlib.createGunzip()).pipe(output);
    us app.js
 ∨ 🗁 que3
    us app.js
    Js chat.js
 ∨ ា que4
    example.txt
    example.txt.gz
    JS Zip.js
 ∨ 🗁 que5
    example_unzipfil...
    unzip.js
 > 🖿 que6
                                                        TERMINAL
 > a que7
                     PS B:\ict 09\que5> node unzip.js
 > = que8
                       Decompressed ../que4/example.txt.gz => example_unzipfile.txt
 > que9
                     OPS B:\ict_09\que5>
 ₃ globalObj.js
```

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

```
unzip.js
                                         us app.js que6 X
                                                          text.txt
                                                                           Js fetchdata.js
                                                                                             package.
∨ICT_09 📮 📮 ℧ 🗇
                        que6 > Js app.js > ...
                               const fs = require("fs");
 > 🖿 file
 > node_modules
 const unlinkAsync = util.promisify(fs.unlink);
  > 🧰 public
     us app.js
                               async function deleteFile(filePath) {
 v 🗁 que2
                                  try {
                                    await unlinkAsync(filePath);

∨ Image public

                                    console.log(`file deleted : ${filePath}`);
     index.html
                                  } catch (err) {
     us app.js

✓ i que3

     us app.js
    Js chat.js

✓ I gue4

    example.txt
    example.txt.gz
    us zip.js
 ∨ 🗁 que5
    example_unzipfil...
    JS unzip.js

✓ Image que6

                                                            TERMINAL
     us app.js
                       PS B:\ict 09\que5> node unzip.js
 > = que7
                         Decompressed ../que4/example.txt.gz => example unzipfile.txt
 > que8
                       PS B:\ict 09\que5> cd ...
 > III que9

    PS B:\ict_09> cd que6

                       PS B:\ict 09\que6> node app.js

✓ = que10

                         file deleted : text.txt
     JS globalObj.js
                       O PS B:\ict 09\que6>
 > que11
   package-lock.json
```

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

PS B:\ict_09\que7> node fetchdata.js
Google page Html fecth successfully..

<!-- Close the page Html fecth successfully..

<!-- Content-Type"><-- Content-Type "><-- Content-Type"><-- Content-Type "><-- Content-Type"><-- Content-Type "><-- Content-Type

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

```
text.txt
                                         ы app.js queб
                                                                            JS fetchdata.js
                                                                                              package.json que8
                        unzip.js
∨ ICT_09
                         que8 > (§) package.json > {} scripts
 > 🖿 file
                                   "name": "que8",
 > node modules
                                   "version": "1.0.0",
 > que1
                                   "description": "",
 > u que2
                                   "main": "index.js",
 > que3
                                   "scripts" {
 > que4
                                    "server" : "node app.js",
"dev" : "nodemon app.js",
 > que5
 > 🖿 que6
                                     "clean" : "rm -rf logs",
 > que7
                                     "test": "echo \"Error: no test specified\" && exit 1"
 ∨ ា que8
     us app.js
                                   "author": "",
     package.json
 > que9

✓ □ que10

     ₃ globalObj.js
 > que11
   package-lock.json
   package.json
                                                             TERMINAL
                          PS B:\ict_09\que8> 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
                          [nodemon] clean exit - waiting for changes before restart
```

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

```
PS B:\ict_09\que9> 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`
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.

```
PS B:\ict_09\que10> node globalObj.js
Current File Path: B:\ict_09\que10\globalObj.js
Current Directory Path: B:\ict_09\que10
Node.js Version: v18.18.2
Platform: win32
Home Directory: C:\Users\DICT
Accessing Global Variable: This is a global variable
Logging from the global console object.
Exiting program in 3 seconds...
This message is shown after 2 seconds delay using setTimeOut.
Exiting now.

PS B:\ict_09\que10>
```

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

```
★ File Edit Selection View Go Run Terminal Help
                                                                               us fetchdata.js
                                                                                                                                          us app.is que9
                                                                                                                                                                                                  us globalObj.js
                                                                                                                                                                                                                            us index.is X us test.is
        VICT_09 ☐ ☐ Que11 > public > Us index.js > ♦ humanizeTimeDiff
                                            function humanizeTimeDiff(date1, date2 = new Date()) {

const d1 = new Date()
          > node_modules
                                                          const d1 = new Date(date1);
const d2 = new Date(date2);
           > 🖿 que1
          > = que2
          > 🖿 que3
          > 🖿 que4
          > 🖿 que5
          > 🖿 gue6
          > 🖿 que7
          > 🖿 que8
          > 🖿 que9
          ∨ = que10
                                           npm ERR! A complete log of this run can be found in: C:\Users\DICT\AppData\Local\npm-cache\_logs\2025-07-28T22_45_06_525Z-debug-0.log
              npm ERR! A complete log of this ps quali
         public npm notice def gdrashti611/que11@1.0.0
npm notice === Tarball Contents ===
npm notice 400B package.json
npm notice 400B public/index.js
npm notice 400B public/index.js
npm notice 200B public/test.js
npm notice 200B public/test.js
                                           npm notice === Tarball Details ===
npm notice name:
npm notice version:
1.0.0
npm notice filename:
drashti611-que11-1.0.0.tgz
             package.json
                                            npm notice package size: 762 B
npm notice unpacked size: 1.6 kB
                                            npm notice shasum: b473069d021dbf6837d95010e5882cfcbbfde1c1
npm notice integrity: sha512-6XLx308GpVDry[...]Mj3zyBD35baKA==
npm notice total files: 3
                                            npm notice
npm notice Publishing to https://registry.npmjs.org/ with tag latest and public access
+ @drashti611/que11@1.0.0
```

