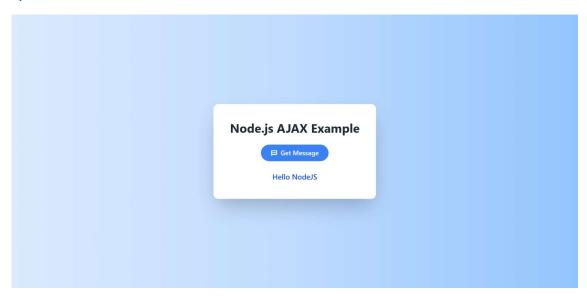
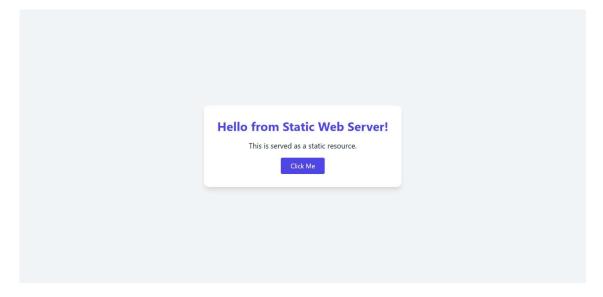
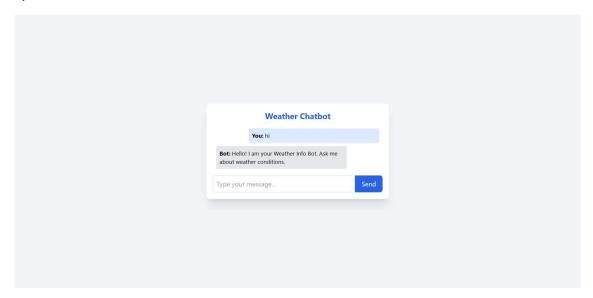
Q1:



Q2:



Q3:



Q4:

```
| File | Edit | Selection | View | Go | Rum | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ..
```

Q5:

```
√ 13_SomnathGouda_304_1A

 File Edit Selection View Go Run
                                                                                                                          83 ~
                                                                                                                                                 0: 🔲 🔲 🗓
                                      server.js ×
D
                                      Q5 > m server.js > ...

1    const fs = require('fs')

2    const unzip = require('unzipper')
     V 13 SOMNATHGOUDA 304 1A
      ∨ 🗁 Q1
      > Q1
         us server.js
                                         4 fs.createReadStream('MyData.zip').pipe(unzip.Extract({ path: 'Data' })).on('close', () => console.log('File ε
      > Q2
       > 🖿 Q3
       > 1 Q4
       > 🥦 Data
        > node modules
0
         MyData.zip
          package-lock.json
                                                                                                                                        powershell - Q5 十~ [] 前 ··· [] ×
                                     PS D:\Somnath\MSC(ICT)\Sem-3\304 Open Source Web Development\13_SomnathGouda_304_1A\Q5> node server.js File extracted.
                                     PIDE EXTRACTED.

PS D:\Somnath\MSC(ICT)\Sem-3\384 Open Source Web Development\13_SomnathGouda_384_1A\Q5>
       > Q6
       > Q7
> Q9
       > 010
       > Q11
> outline خرج
> TIMELINE

> ⊗ 0 ▲ 0 ♀
                                                                                             Ln 3, Col 1 (35 selected) Spaces: 4 UTF-8 CRLF {} JavaScript ♣ ♠ Go Live ✓ Prettie
```

Q6:

```
··· us server.js us Chatbot.js × (β) package.json us zip.js
D
                                                               Q8 > Us Chatbot.js > 😙 chat > 😭 rl.question('You: ') callback
                                                                    const readline = require('readline');
const chatbot = require('../Q3/Chatbot');
          ∨ = Q2
           > public server.js
                                                                const rl = readline.createInterface({
   input: process.stdin,
   output: process.stdout
   });

console.log("BackendBot - Ask me anything about backend technologies!\n(Type 'bye' to exit)");
}
           > ■ Q3
           > Q4
           > Q5
                MyData.txt
0
               server.js
                                                               PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS POSTMAN CONSOLE
                                                                                                                                                                                                                                 ☑ powershell - Q6 + ∨ Ⅲ 前 ··· □ ×
            V 🍋 Data
                                                                     at emitKeys.next (<anonymous>)
at ReadStream.onData (node:internal/readline/emitKeypressEvents:64:36)
at ReadStream.emit (node:events:518:28)
                data.txt
            > node_modules
                Chatbot.js
                                                            Node.js v22.17.1

Stol:\Somnath\MSC(ICT)\Sem-3\304 Open Source Web Development\13_SomnathGouda_304_1A\Q8> cd ..

Stol:\Somnath\MSC(ICT)\Sem-3\304 Open Source Web Development\13_SomnathGouda_304_1A\Q8> cd ..

Stol:\Somnath\MSC(ICT)\Sem-3\304 Open Source Web Development\13_SomnathGouda_304_1A\Q6> node server.js

File not found:- Error: ENORT: no such file or directory, unlink 'D:\Somnath\MSC(ICT)\Sem-3\304 Open Source Web Development\13_SomnathGouda_304_1A\Q6>

Stol:\Somnath\MSC(ICT)\Sem-3\304 Open Source Web Development\13_SomnathGouda_304_1A\Q6>
                 MyData (1).zip
(

  package.json

                zip.js
           > Q10
            > Q11
        > OUTLINE
          > TIMELINE
```

Q7:

```
08 🔲 🗀 🖽
                                                                                                                                                                                                                                                                             ₃ Chatbot.js × ⑤ package.json
                                                                                                                                                                                                             Q8 > ... Chatbotjs > @ chat > @ rl.question(You: ) callback

const readline = require('readline');

const chatbot = require('../Q3/Chatbot');
                              V 13 SOMNATHGOUDA 304 1A
                                 ∨ 📻 Q2
                                      > to public server.js
                                                                                                                                                                                                                                4 const rl = readline.createInterface({
                                    > ■ Q3
                                                                                                                                                                                                                    const r1 = readline.createIntertace({
    input: process.stdin,
    output: process.stdout
}

// Discrete for the second of the second of
                                    > 🖿 Q4
                                    > = Q5
                                    > 🖿 Q6

✓ □ Q7

                                                                                                                                                                                                        10
11 function chat() {
                                           MyData.txt
 0
                                                     us server.js
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ☑ powershell - Q7 + ∨ Ⅲ 🛍 ··· [] ×
                                                                                                                                                                                                     PS D:\Somnath\MSC(ICT)\Sem-3\304 Open Source Web Development\13_SomnathGouda_304_1A\Q7> node server.js
<\doctype html>\chtml itemscope="" itemtype="http://schema.org/WebPage" lang="en-IN">\chead>\chtml itemscope="" itemtype="http://schema.org/WebPage" lang="en-IN">\chead>\chtml itemscope="" itemtype="http://schema.org/WebPage" lang="en-IN">\chead>\chtml itemscope="itemtype="http://schema.org/WebPage" lang="en-IN">\chead>\chtml itemscope="itemtype="http://schema.org/WebPage" lang="en-IN">\chtml itemscope="itemtype="http://schema.org/WebPage" lan
                                    ✓ 🍋 Data
🖹 data.txt
                                           > node_modules
                                                       MyData (1).zip
 (
                                                                                                                                                                                                          PS D:\Somnath\MSC(ICT)\Sem-3\304 Open Source Web Development\13 SomnathGouda 304 1A\Q7>
                                                       package-lock.json
                                                       us zip.js
                                         > Q9
                                      > Q10
                                        > Q11
ې > outline
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    In 15. Col 1 Spaces: 4 UTF-8 CRLF () JavaScript & @ Go Live & Prettier
```

Q8:

```
83 ~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ··· 🚜 server.js 🛂 Chatbot.js X 🚯 package.json 🛂 zip.js
                                                                                                                              Q8 > 1 Chatbotjs > 2 Chatbotjs
                   V 13 SOMNATHGOUDA 304 1A
                      ∨ 🗁 Q2
                        > to public

Js server.js
                                                                                                                                          const rl = readline.createInterface({
    input: process.stdin,
    output: process.stdout
});

console.log("BackendBot - Ask me anything about backend technologies!\n(Type 'bye' to exit)");
                        > ■ Q3
                        > 🖿 Q5
                         > 🖿 06
                        ∨ 📻 Q7
                                    MyData.txt
 0
                                 server.js
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ≥ powershell - Q8 + ∨ □ 🛍 ··· [] ×
                        ∨ > 08
                                                                                                                                                         at emitKeys (node:internal/readline/utils:370:14)
at emitKeys.next (<anonymous>)
at ReadStream.onData (node:internal/readline/emitKeypressEvents:64:36)
at ReadStream.emit (node:events:538:28)
                           ∨ 🦲 Data
                           > node_modules
                                    Ghatbot.js
                                                                                                                                    Node.js v22.17.1

PS D:\Somnath\MSC(ICT)\Sem-3\394 Open Source Web Development\13_SomnathGouda_394_1A\Q8> node Chatbot.js
BackendBot - Ask me anything about backend technologies!
(Type 'bye' to exit)
You: bye
node:internal/readline/enitKeypressEvents:74
throw err;
                                    MyData (1).zip
 (
                                    package-lock.json
                                    us zip.js
                          > Q9
                          > Q10
                           > 🖿 Q11
                                                                                                                                                           at D:\Sommath\MSC\ICT\\Sem-3\304 \Open Source Web Development\13_SommathGouda_304_1A\Q8\Chatbot.js:13:34
at [_online] [as _online] (node:internal/readline/interface:421:7)
at [_line] [as _line] (node:internal/readline/interface:894:18)
> outline جوج
                  > TIMELINE
                                                                                                                                                                                                                                                                                                                                                                            Ln 15, Col 1 Spaces: 4 UTF-8 CRLF () JavaScript 🔠 🚳 Go Live 📈 Prettier
 × ⊗0∆0 β
```

Q9:

```
\P File Edit Selection View Go Run \cdots \leftarrow 
ightarrow
                                                                                                                                                                          &~
                                                                                                                                                                                                         08 🔲 🗀 🖽
EXPLORER
                                            ··· s server.js × s Chatbot.js × s package.json
       V 13 SOMNATHGOUDA 304 1A
                                                     Q8 > 35 Chatbot.js > 😯 chat > 😚 rl.question('You: ') callback
                                                         const readline = require('readline');
const chatbot = require('../Q3/Chatbot');
         > 🖿 Q1
         > = Q2
        > Q3
                                                          4 const rl = readline.createInterface({
                                                      input: process.stdin,
output: process.stdout
));

console.log("BackendBot - Ask me anything about backend technologies!\n(Type 'bye' to exit)");
         > 1 Q5
         > Q7
         > 🖿 Q8
                                                   10
11 function chat() {
0
         > MyFiles

Js server.js
                                                                                                                                                                                              ≥ powershell - Q9 + ∨ □ 🛍 ··· □ ×
                                                   PS D:\Sommath\MSC(ICT)\Sem-3\304 Open Source Web Development\13_SommathGouda_304_1A\Q8> cd ..

PS D:\Sommath\MSC(ICT)\Sem-3\304 Open Source Web Development\13_SommathGouda_304_1A\ cd Q9

PS D:\Sommath\MSC(ICT)\Sem-3\304 Open Source Web Development\13_SommathGouda_304_1A\Q9> node server.js
File written successfully.
File content: Hello, NodeJs.

MERN Stack.

Renamed. Renamed.

Renamed file exists.
2
         > Q11
            .hintrc
(()
                                                      File deleted.

PS D:\Somnath\MSC(ICT)\Sem-3\304 Open Source Web Development\13_SomnathGouda_304_1A\Q9>
> OUTLINE
> TIMELINE
                                                                                                                                              Ln 15, Col 1 Spaces: 4 UTF-8 CRLF {} JavaScript 😝 📦 Go Live 🗸 Prettier 🚨
× ⊗0<u>∆</u>0 $
```

Q10:

```
ightharpoonup File Edit Selection View Go Run \cdots \leftarrow 
ightharpoonup

√ 13_SomnathGouda_304_1A

                                                                                                                                                                                 08 🔲 📟 🖽
EXPLORER
                                        ··· server.js × server.js × package.json
                                              Q8 > . Chatbotjs > @ chat > @ fl.question(You: ) callback

const readline = require('readline');

const chatbot = require('../Q3/Chatbot');
      V 13 SOMNATHGOUDA 304 1A
        > Q2
        > 🖿 Q3
                                                   4 const rl = readline.createInterface({
        > 🖿 Q4
                                                  > Q5
        > Q6
                                              10
11 function chat() {
        ∨ 📻 Q9
0
         > MyFiles
           server.js
                                                                                                                                                                      ≥ powershell - Q10 + ∨ □ 🛍 ··· [] ×
                                                __dirname: D:\Somnath\MSC(ICT)\Sem-3\384 Open Source Web Development\13_SomnathGouda_384_1A\Q18
__filename: D:\Somnath\MSC(ICT)\Sem-3\384 Open Source Web Development\13_SomnathGouda_384_1A\Q18\Server.js
Process platform: win32
Current working dir: D:\Somnath\MSC(ICT)\Sem-3\384 Open Source Web Development\13_SomnathGouda_384_1A\Q18
Memory usage: {
    rss: 38818112,
    heapTotal: S832784,
    besplictd: 4584584
        > Q11
           .hintrc
(
                                                   heapUsed: 4504584,
external: 1548712,
arrayBuffers: 10515
                                                }
Buffer data: Hello Node.js!
global.customVar: I am a global variable!
setInterval count: 1
                                                > OUTLINE
> TIMELINE

> ⊗ 0 △ 0 ♀
```

Q11: