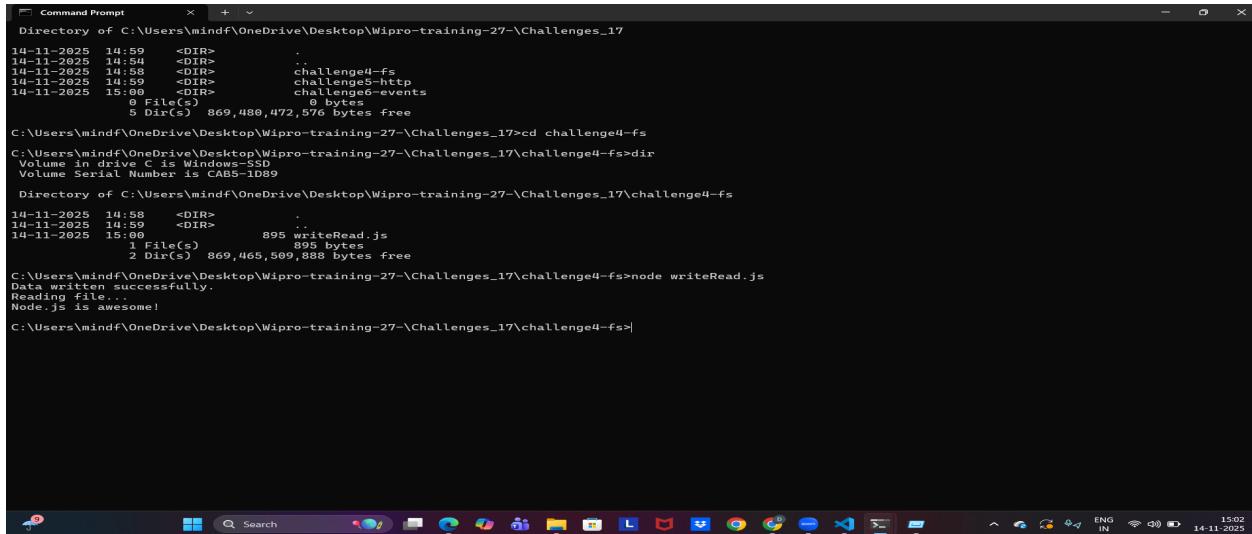


# Node.js Core Modules

## Challenge 4: File System (fs) Module

**User Story:** As a content manager, I want to store user input into a file and read it back for confirmation.



```
Command Prompt      x + v
Directory of C:\Users\mindf\OneDrive\Desktop\Wipro-training-27\Challenges_17
14-11-2025 14:59 <DIR> .
14-11-2025 14:59 <DIR> .
14-11-2025 14:58 <DIR> challenge4-fs
14-11-2025 14:59 <DIR> challenge5-http
14-11-2025 15:00 <DIR> challenge6-events
          0 File(s)   0 bytes
          5 Dir(s)  869,488,472,576 bytes free

C:\Users\mindf\OneDrive\Desktop\Wipro-training-27\Challenges_17>cd challenge4-fs
C:\Users\mindf\OneDrive\Desktop\Wipro-training-27\Challenges_17\challenge4-fs>dir
Volume in drive C is Windows-SSD
Volume Serial Number is CAB5-1D89

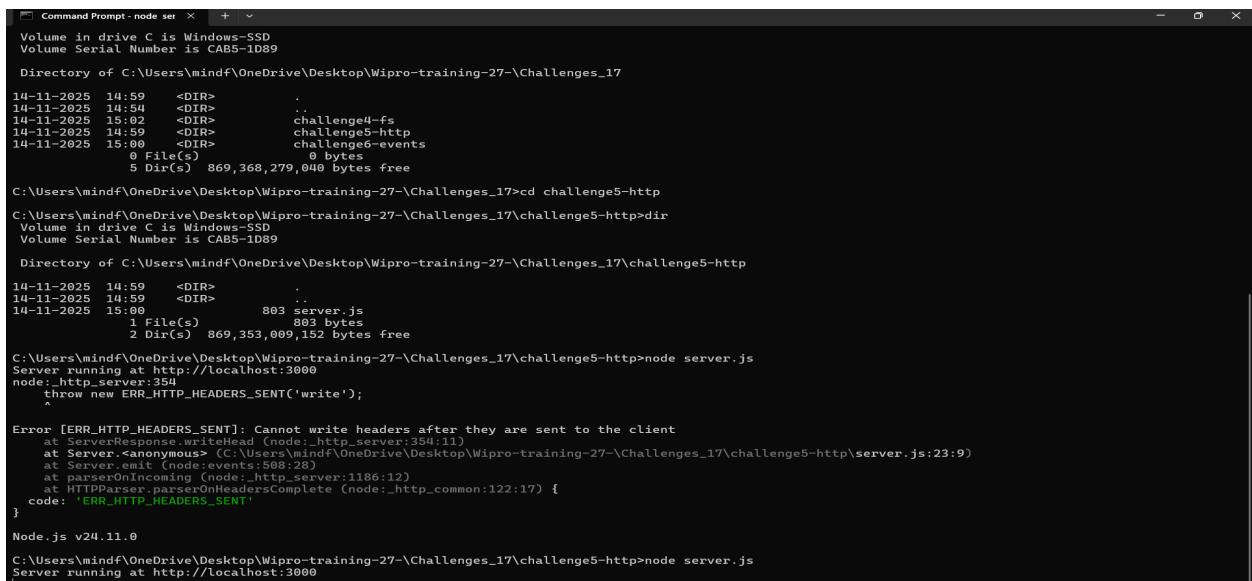
Directory of C:\Users\mindf\OneDrive\Desktop\Wipro-training-27\Challenges_17\challenge4-fs

14-11-2025 14:58 <DIR> .
14-11-2025 14:59 <DIR> 895 writeRead.js
          2 File(s)   898 bytes
          2 Dir(s)  869,465,509,888 bytes free

C:\Users\mindf\OneDrive\Desktop\Wipro-training-27\Challenges_17\challenge4-fs>node writeRead.js
Data written successfully.
Reading file...
Node.js is awesome!
C:\Users\mindf\OneDrive\Desktop\Wipro-training-27\Challenges_17\challenge4-fs>
```

## Challenge 5: HTTP Module

**User Story:** As a backend developer, I want to serve a basic web page using Node.js without Express.



```
Command Prompt - node ser x + v
Volume in drive C is Windows-SSD
Volume Serial Number is CAB5-1D89

Directory of C:\Users\mindf\OneDrive\Desktop\Wipro-training-27\Challenges_17
14-11-2025 14:59 <DIR> .
14-11-2025 14:59 <DIR> .
14-11-2025 15:02 <DIR> challenge4-fs
14-11-2025 14:59 <DIR> challenge5-http
14-11-2025 15:00 <DIR> challenge6-events
          0 File(s)   0 bytes
          5 Dir(s)  869,368,279,040 bytes free

C:\Users\mindf\OneDrive\Desktop\Wipro-training-27\Challenges_17>cd challenge5-http
C:\Users\mindf\OneDrive\Desktop\Wipro-training-27\Challenges_17\challenge5-http>dir
Volume in drive C is Windows-SSD
Volume Serial Number is CAB5-1D89

Directory of C:\Users\mindf\OneDrive\Desktop\Wipro-training-27\Challenges_17\challenge5-http

14-11-2025 14:59 <DIR> .
14-11-2025 14:59 <DIR> 803 server.js
          1 File(s)   803 bytes
          2 Dir(s)  869,353,009,102 bytes free

C:\Users\mindf\OneDrive\Desktop\Wipro-training-27\Challenges_17\challenge5-http>node server.js
Server running at http://localhost:3000
node:_http_server:354
^
throw new ERR_HTTP_HEADERS_SENT('write');

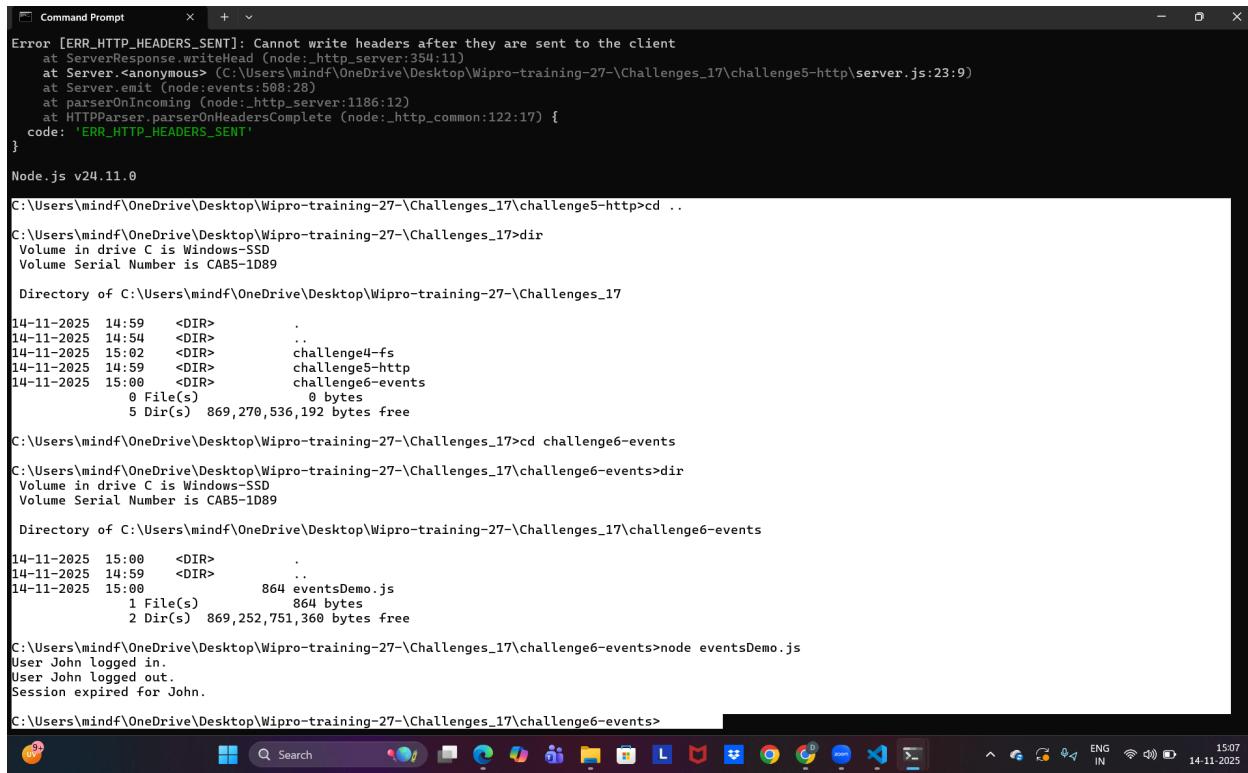
Error: [ERR_HTTP_HEADERS_SENT]: Cannot write headers after they are sent to the client
    at ServerResponse.writeHead (node:_http_server:354:11)
    at Server.<anonymous> (C:\Users\mindf\OneDrive\Desktop\Wipro-training-27\Challenges_17\challenge5-http\server.js:23:9)
    at Server.emit (node:events:508:28)
    at parserOnIncoming (node:_http_server:1186:12)
    at HTTPParser.parserOnHeadersComplete (node:_http_common:122:17) {
  code: 'ERR_HTTP_HEADERS_SENT'
}

Node.js v24.11.0

C:\Users\mindf\OneDrive\Desktop\Wipro-training-27\Challenges_17\challenge5-http>node server.js
Server running at http://localhost:3000
```

## Challenge 6: Events Module

**User Story:** As a developer, I want to simulate event-driven behavior (like a notification system).



```
Command Prompt
Error [ERR_HTTP_HEADERS_SENT]: Cannot write headers after they are sent to the client
  at ServerResponse.writeHead (node: http_server:354:11)
  at Server.<anonymous> (C:\Users\mindf\OneDrive\Desktop\Wipro-training-27-\Challenges_17\challenge5-http\server.js:23:9)
  at Server.emit (node:events:508:28)
  at parserOnIncoming (node: http_server:1186:12)
  at HTTPParser.parserOnHeadersComplete (node:_http_common:122:17) {
    code: 'ERR_HTTP_HEADERS_SENT'
}

Node.js v24.11.0

C:\Users\mindf\OneDrive\Desktop\Wipro-training-27-\Challenges_17\challenge5-http>cd ..

C:\Users\mindf\OneDrive\Desktop\Wipro-training-27-\Challenges_17>dir
Volume in drive C is Windows-SSD
Volume Serial Number is CAB5-1D89

Directory of C:\Users\mindf\OneDrive\Desktop\Wipro-training-27-\Challenges_17

14-11-2025 14:59 <DIR> .
14-11-2025 14:54 <DIR> ..
14-11-2025 15:02 <DIR> challenge4-fs
14-11-2025 14:59 <DIR> challenge5-http
14-11-2025 15:00 <DIR> challenge6-events
  0 File(s)          0 bytes
  5 Dir(s)  869,270,536,192 bytes free

C:\Users\mindf\OneDrive\Desktop\Wipro-training-27-\Challenges_17>cd challenge6-events

C:\Users\mindf\OneDrive\Desktop\Wipro-training-27-\Challenges_17\challenge6-events>dir
Volume in drive C is Windows-SSD
Volume Serial Number is CAB5-1D89

Directory of C:\Users\mindf\OneDrive\Desktop\Wipro-training-27-\Challenges_17\challenge6-events

14-11-2025 15:00 <DIR> .
14-11-2025 14:59 <DIR> ..
14-11-2025 15:00       864 eventsDemo.js
  1 File(s)          864 bytes
  2 Dir(s)  869,252,751,360 bytes free

C:\Users\mindf\OneDrive\Desktop\Wipro-training-27-\Challenges_17\challenge6-events>node eventsDemo.js
User John logged in.
User John logged out.
Session expired for John.

C:\Users\mindf\OneDrive\Desktop\Wipro-training-27-\Challenges_17\challenge6-events>
```