

Ex1

Q1 – What error message do you see in the terminal when you access

`http://localhost:3000`? What line of code causes it?

A1- the error message is `SyntaxError: Invalid or unexpected token` cause from the `res.end()`; is wrong spelling in line 5

Q2 – What is the purpose of `res.write()` and how is it different from `res.end()`?

`res.write()` use to send data to the client but it doesn't close the connection, while `res.end()` is used to signal that the response is complete and close the connection.

Q3 – What do you think will happen if `res.end()` is not called at all?

i think the server will continue to wait for more data and the client will not receive a response cause the browser will be loading forever

Q4 – Why do we use `http.createServer()` instead of just calling a function directly?

`http.createServer()` is used to create an HTTP server that listens for incoming requests and handles them asynchronously. It allows us to define a callback function that will be executed

Q5 – How can the server be made more resilient to such errors during development?

use try-catch block to handle errors or use nodemon to automatically restart the server everything we change the code

Ex 2

1. What happens when you visit a URL that doesn't match any of the three defined?

it will go to default page said 404 not found

2. Why do we check both the `req.url` and `req.method`?

because we want to check the url and method of the request

3. What MIME type (Content-Type) do you set when returning HTML instead of plain text?

`text/html`

4. How might this routing logic become harder to manage as routes grow?

it will be hard to manage because we have to check all the routes and methods

5. What benefits might a framework offer to simplify this logic?

it will help us to manage the routes and methods easily

Ex-3

1. Why do we listen for data and end events when handling POST?

We listen for data events to collect the chunks of data sent in the request body, and we listen for the end event to know when all data has been received.

2. What would happen if we didn't buffer the body correctly?

if we didn't we might not get the full data or fail to process it correctly

3. What is the format of form submissions when using the default browser form POST?

application/x-www-form-urlencoded

4. Why do we use fs.appendFile instead of fs.writeFile?

because fs.writeFile overwrites the file and fs.appendFile appends the data in the file

5. How could this be improved or made more secure?

maybe we can use a database to store the data .