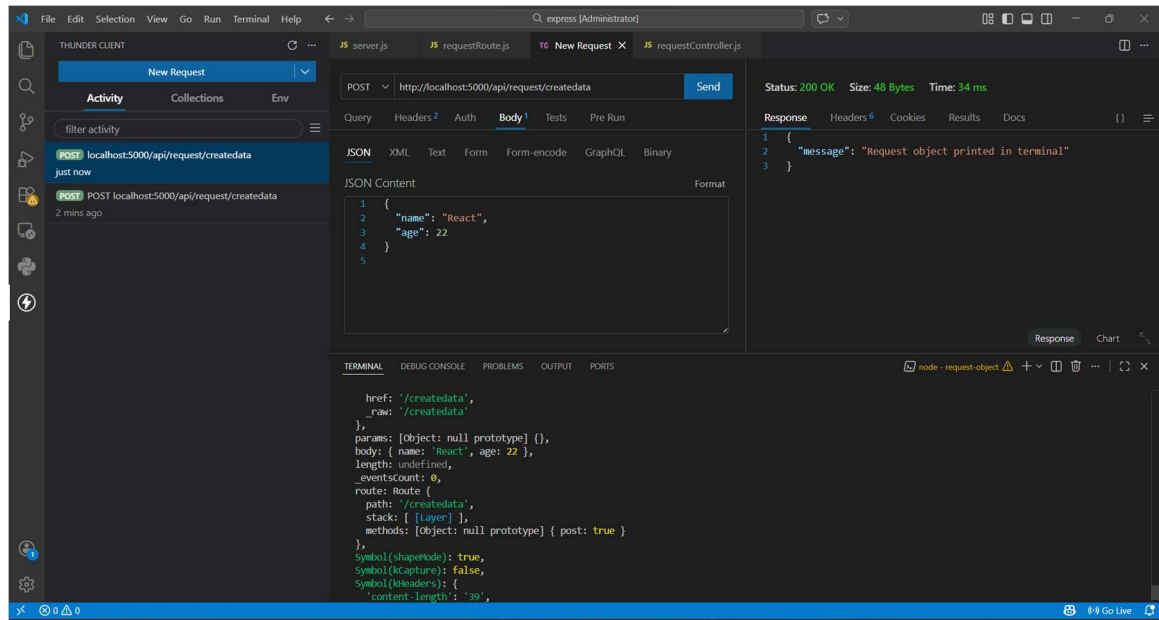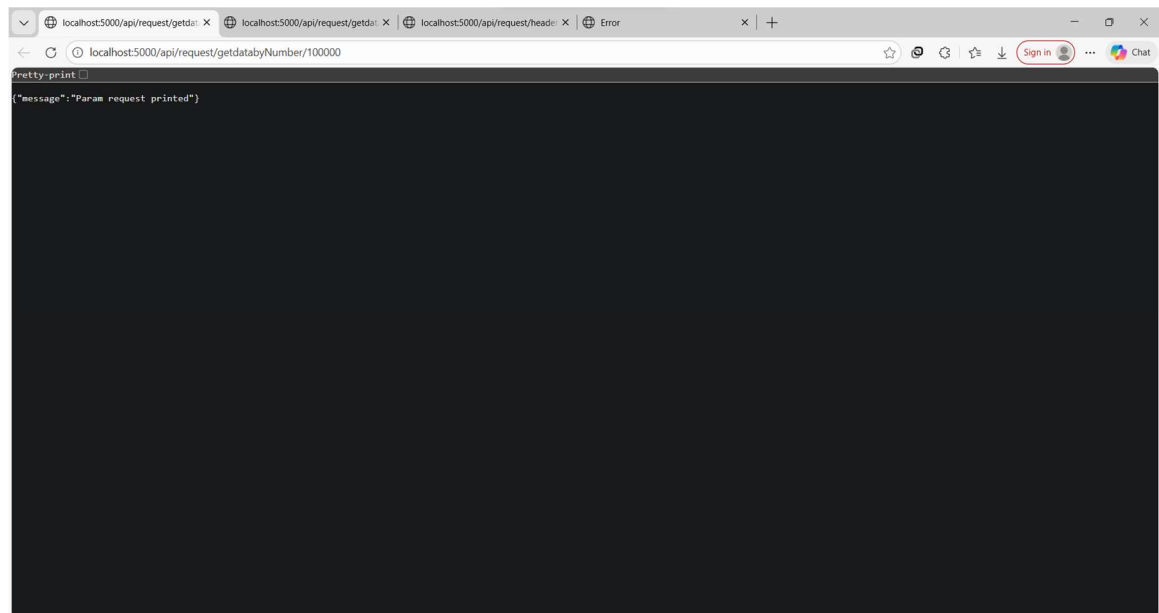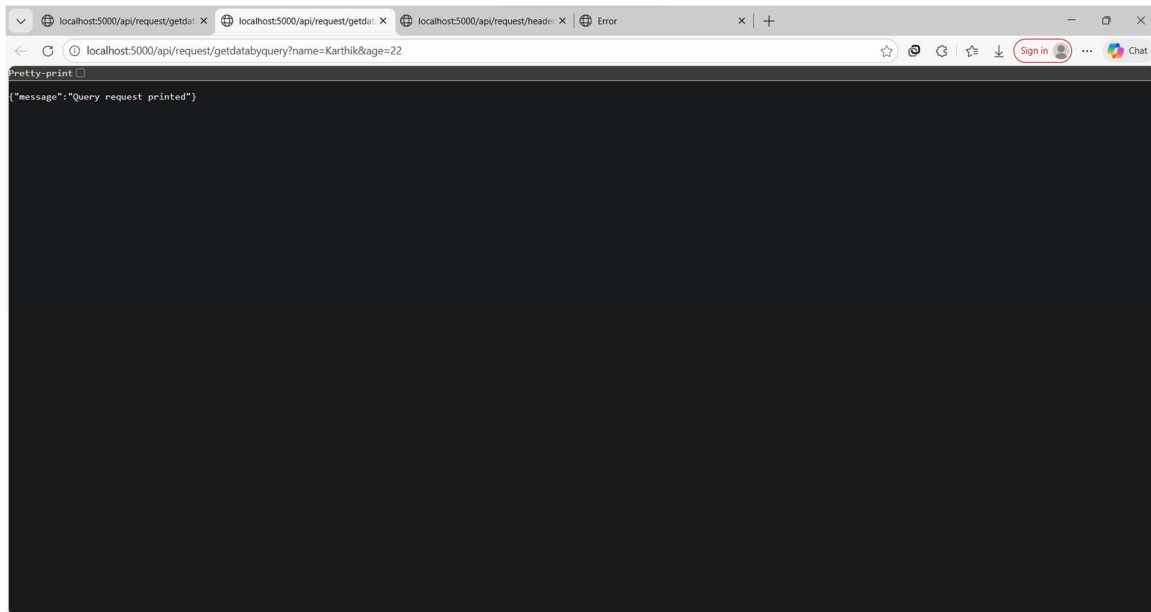1. Make the 4 route - req object using. body,params,query,
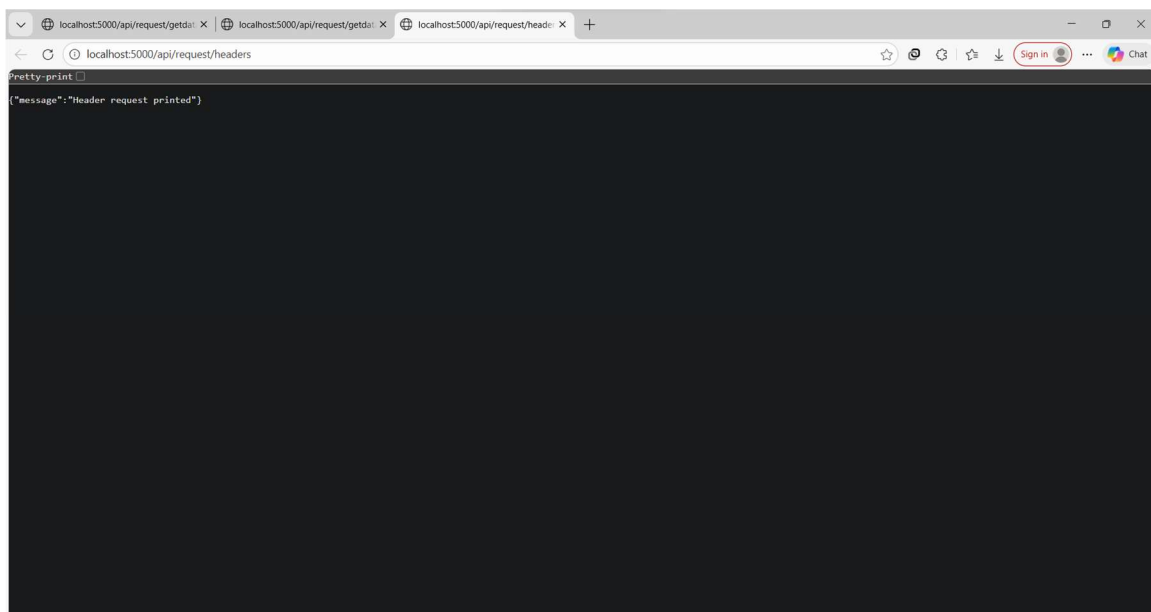
body

Params

Query

Header

2. What is Request Object?

The Request Object (req) is created by Express.js and contains all information about the incoming HTTP request from the client.
It includes:

- URL
- HTTP Method (GET, POST, PUT, DELETE)
- Headers
- Body Data
- Query Parameters
- Route Parameters

We use the request object whenever we need to read or access data sent by the client.

3. What is the use of Body Data? When do we use it?

req.body contains data sent by the client in the request body.

Used in:
- POST
- PUT
- PATCH

We use body data when:
- Submitting forms
- Sending JSON data
- Creating or updating database records

Example:
```
app.post("/register", (req, res) => {
  console.log(req.body.name);
});
```

Note: We must use middleware like express.json() to access body data.

4. What is the use of Headers Data? When do we use it?

req.headers contains metadata about the request.

Used for:
- Authentication tokens
- Content-Type
- Authorization
- Language preferences

Example:
```
console.log(req.headers.authorization);
```

Headers are used to send extra information that is not part of the main data.

5. What is the use of Params Data? When do we use it?

req.params contains route parameters.

Used when:
- Fetching a specific resource by ID
- Creating dynamic routes

Example:
```
app.get("/user/:id", (req, res) => {
 console.log(req.params.id);
});
```

If URL is /user/101, then output will be 101.

6. What is the use of Query Data? When do we use it?

req.query contains query string parameters.

Used for:
- Filtering
- Searching
- Sorting
- Pagination

Example:
```
app.get("/products", (req, res) => {
 console.log(req.query.category);
});
```

If URL is /products?category=mobile, then output will be mobile.

7. What is Request Object? When do we use it? (Summary)

The request object (req) in Express.js is used to access all data sent by the client to the server.

We use it:
- To read form data -> req.body
- To get route values -> req.params
- To read search filters -> req.query

- To check authentication -> req.headers
- To know request method -> req.method