Assignment: Implementing CRUD Operations with Java

//API's created are total 5 in numbers:

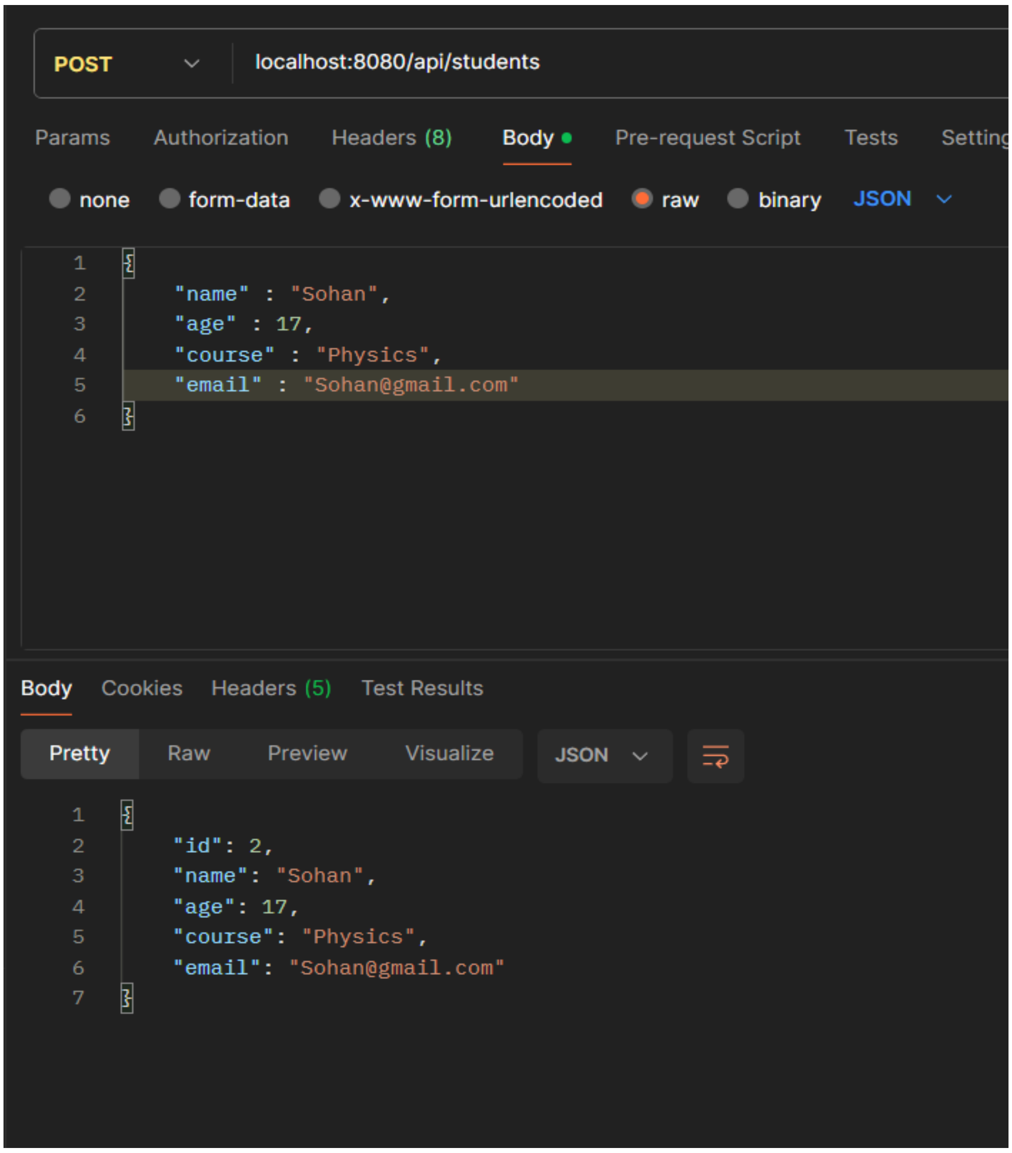
RequestMapping => "/api/students"

Endpoints:

i. **POST** /api/students - Add a new student.

Example request body:

```
{
"name": "Sohan",
"age": 17,
"course": "Physics",
"email": "Sohan@gmail.com"
}
```

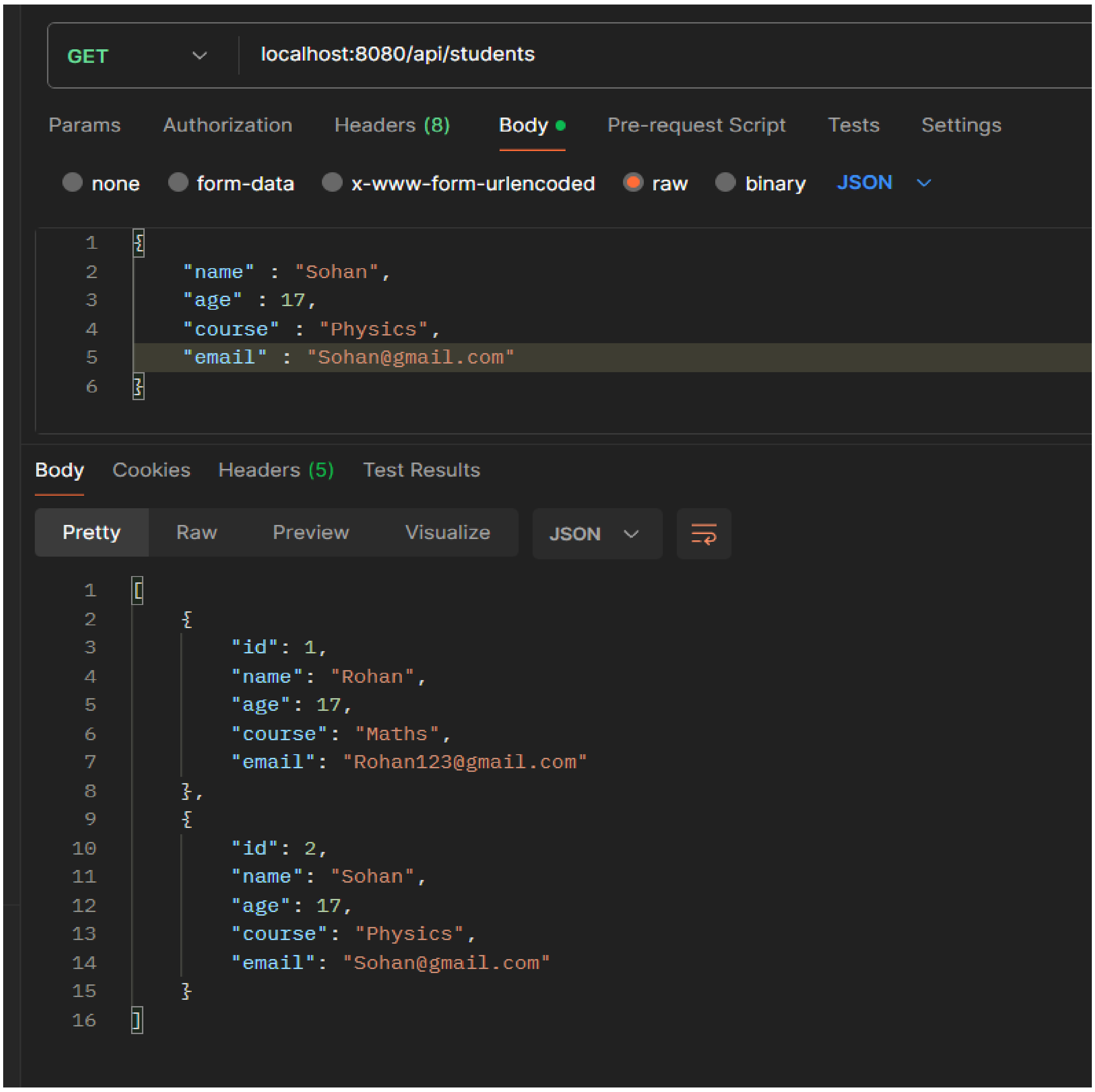


localhost:8080/api/students

```
{
    "name" : "Sohan",
    "age" : 17,
    "course" : "Physics",
    "email" : "Sohan@gmail.com"
}
```

```
{
    "id": 2,
    "name": "Sohan",
    "age": 17,
    "course": "Physics",
    "email": "Sohan@gmail.com"
}
```

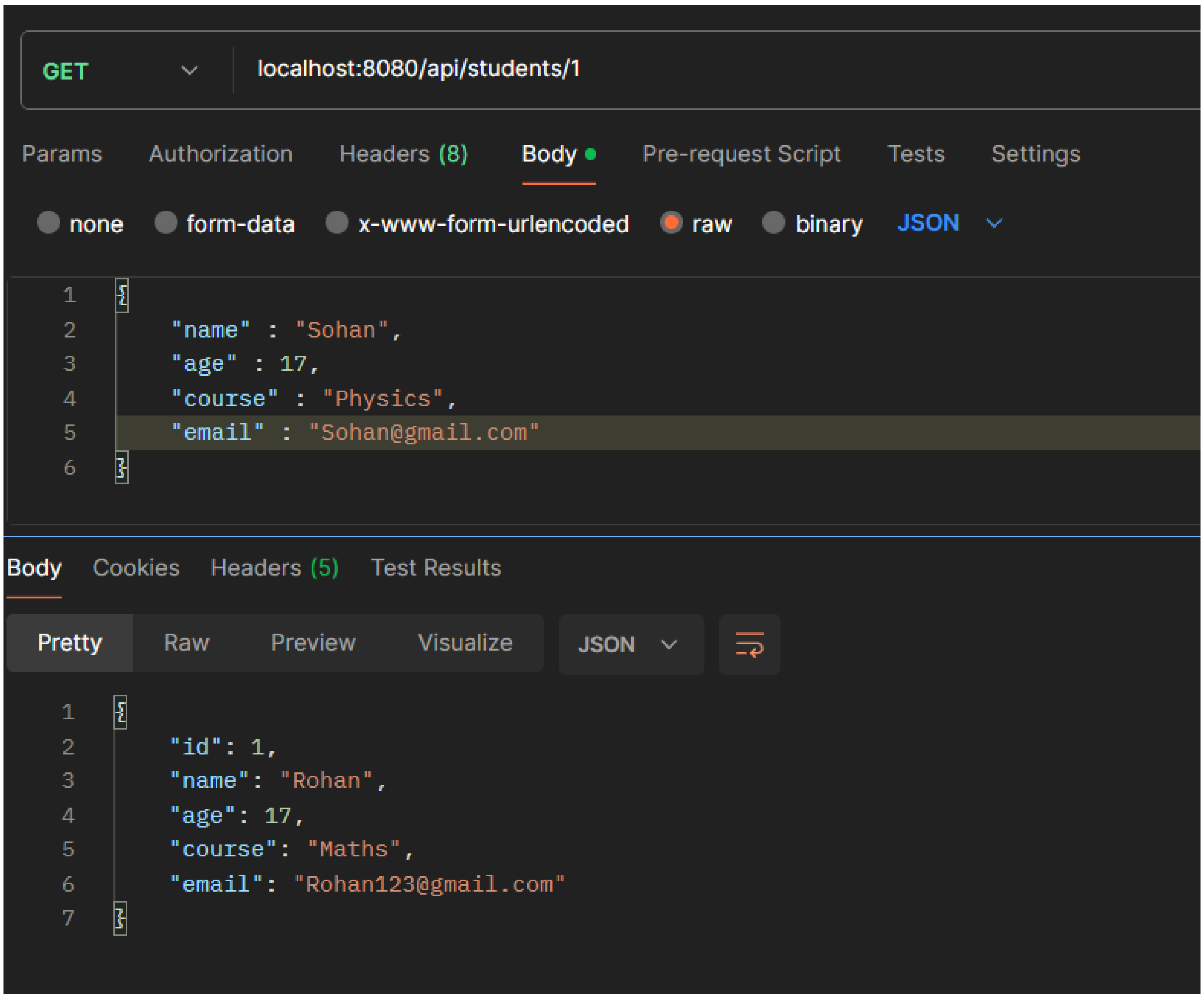
ii. **GET** /api/students - Retrieve all students.



```
{
    "name" : "Sohan",
    "age" : 17,
    "course" : "Physics",
    "email" : "Sohan@gmail.com"
}
```

```
[
    {
        "id": 1,
        "name": "Rohan",
        "age": 17,
        "course": "Maths",
        "email": "Rohan123@gmail.com"
    },
    {
        "id": 2,
        "name": "Sohan",
        "age": 17,
        "course": "Physics",
        "email": "Sohan@gmail.com"
    }
]
```

iii. **GET** /api/students/{id} - Retrieve a specific student by ID.

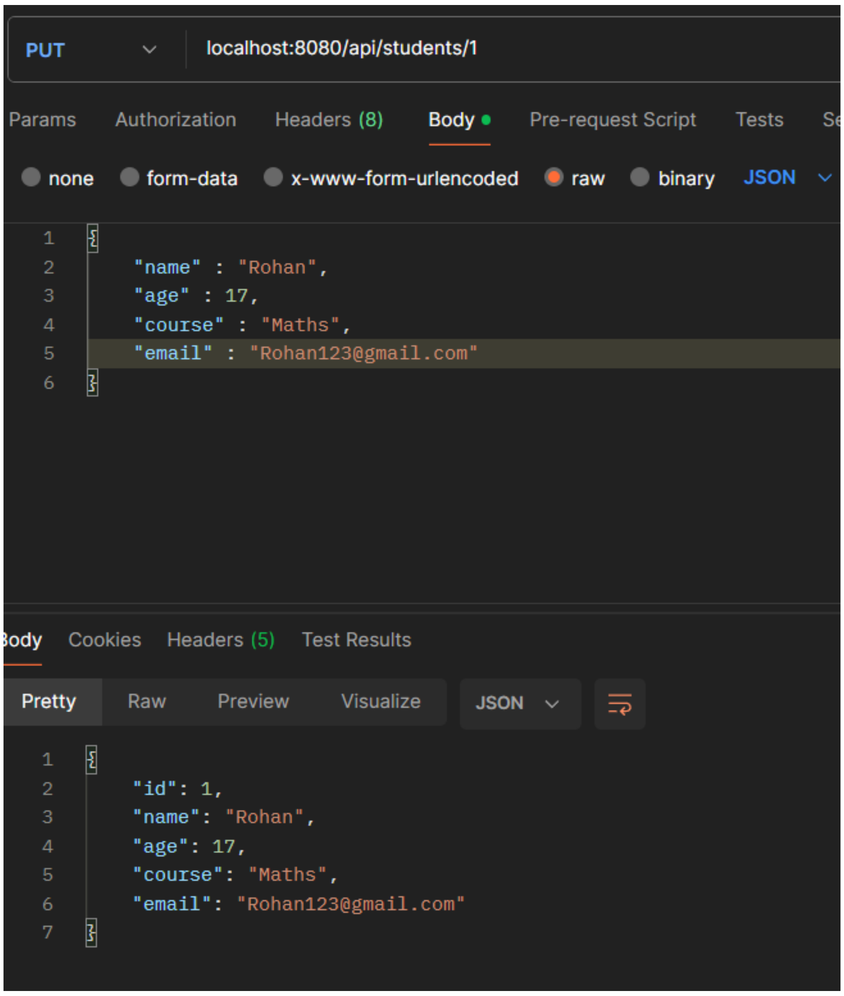


```
localhost:8080/api/students/1
```

```
{
    "name" : "Sohan",
    "age" : 17,
    "course" : "Physics",
    "email" : "Sohan@gmail.com"
}
```

```
{
    "id": 1,
    "name": "Rohan",
    "age": 17,
    "course": "Maths",
    "email": "Rohan123@gmail.com"
}
```

iv. **PUT** /api/students/{id} - Update an existing student's details.



PUT localhost:8080/api/students/1

Params | Authorization | Headers (8) | Body | Pre-request Script | Tests

none | form-data | x-www-form-urlencoded | [✓ raw] | binary | JSON

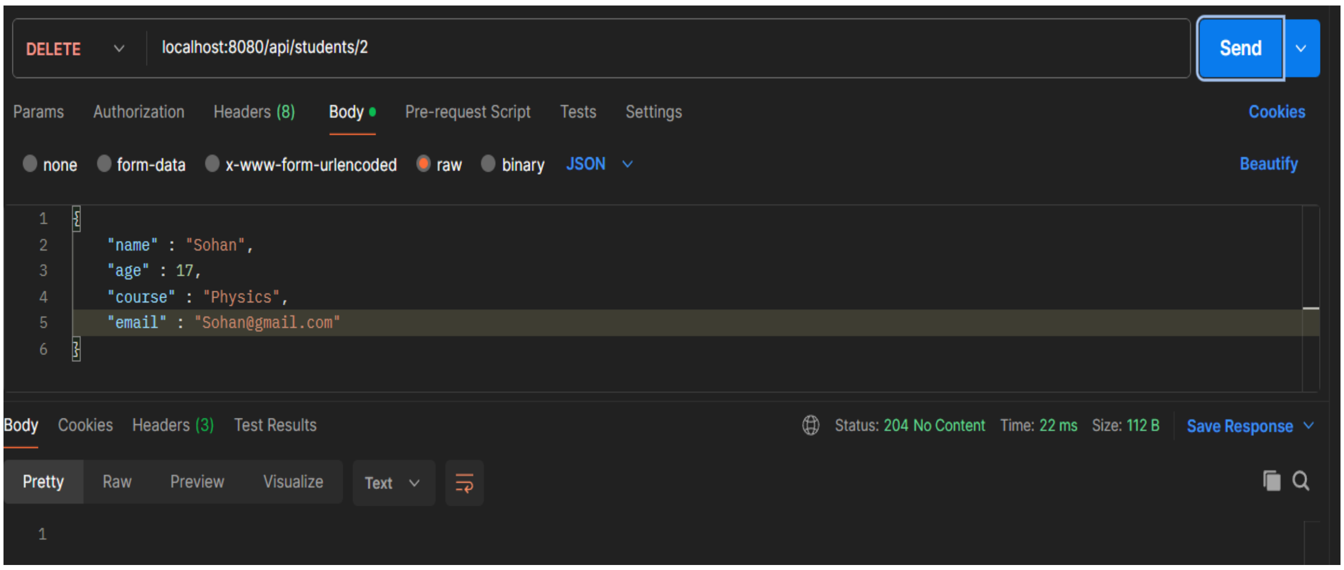
```
{
    "name" : "Rohan",
    "age" : 17,
    "course" : "Maths",
    "email" : "Rohan123@gmail.com"
}
```

Body | Cookies | Headers (5) | Test Results

Pretty | Raw | Preview | Visualize | JSON

```
{
    "id": 1,
    "name": "Rohan",
    "age": 17,
    "course": "Maths",
    "email": "Rohan123@gmail.com"
}
```

v. **DELETE** /api/students/{id} - Delete a student by ID.



DELETE localhost:8080/api/students/2

Send

Params | Authorization | Headers (8) | Body | Pre-request Script | Tests | Settings | Cookies

none | form-data | x-www-form-urlencoded | [✓ raw] | binary | JSON | Beautify

```
{
    "name" : "Sohan",
    "age" : 17,
    "course" : "Physics",
    "email" : "Sohan@gmail.com"
}
```

Body | Cookies | Headers (3) | Test Results

Status: 204 No Content Time: 22 ms Size: 112 B Save Response

Pretty | Raw | Preview | Visualize | Text