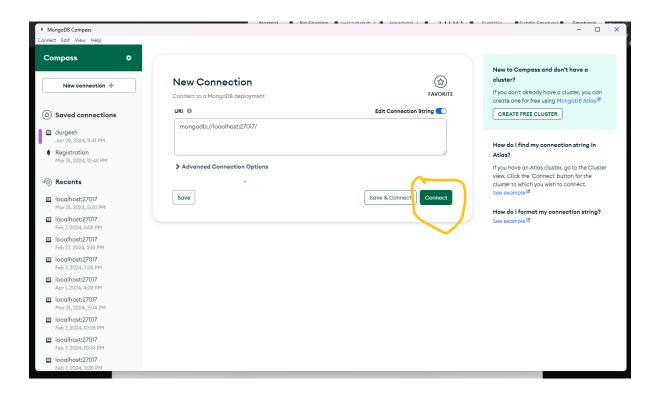
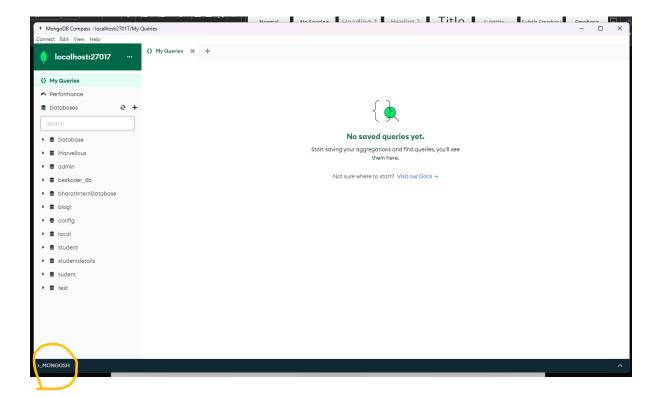
1.	For this practical we required MongoDB, postman, vs code install on your computer
2.	Create empty folder for example ass_3_b and open this folder in vs code
3.	Open cmd terminal up to this folder
4.	For this practical we need package.json, so we run following cmd command:  >npm init  Note: hit enter upto 9 to 10 times  >npm I mongodb
	Note: it is for installing monogdb inside the project  >npm i express
5.	Create file index.js in practical folder
6.	Create file mongodb.js in practical folder

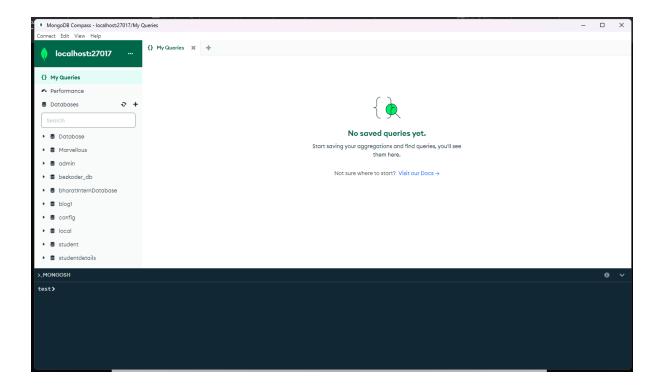
### 7. Go to MongoDB compass and connect following link and click connect button

Link = ( mongodb://localhost:27017 )



8. After connect link we show this page and click on ( >\_MONGOSH)

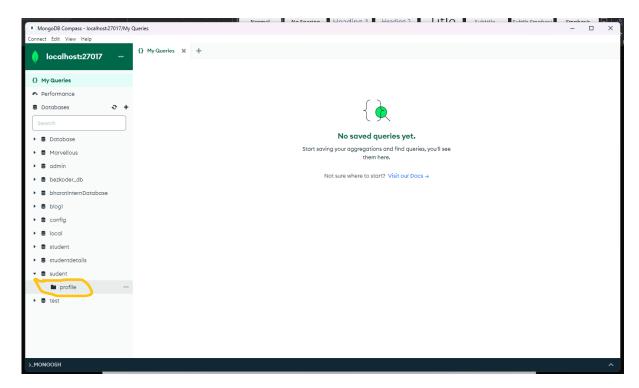




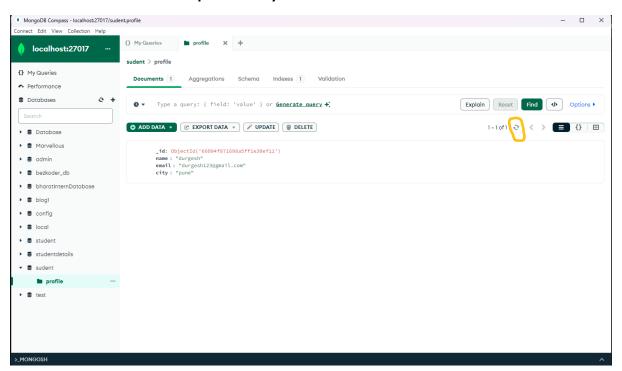
9. After the mongosh open the write one by one command for create data base and collection :

```
>show dbs
>use student
>db.createCollection('profile')
>db.profile.insertOne({name:"durgesh", email:"durgesh123@gmail.com",
city:"pune"})
```

10. After that check the student and then profile as follow:



# 11. After that refresh the profile the you see the data



### 12. Go to mongodb.js file in practical folder and write following code:

```
const { MongoClient } = require('mongodb');
const url = "mongodb://localhost:27017";
const database = 'student';
const client = new MongoClient(url, { useUnifiedTopology: true });

const dbConnect = async () => {
    try {
        await client.connect(); // Connect to MongoDB
        const db = client.db(database); // Select the database
        return db.collection('profile'); // Return the collection
    } catch (error) {
        console.error('Error:', error); // Log any errors
        throw error; // Re-throw the error to be handled by the caller
    }
};

module.exports = dbConnect;
```

#### 13. Go to index.js file in practical folder and write following code:

```
const dbConnect = require('./mongodb');
const express = require('express');
const app = express();
app.use(express.json())
// GET API
app.get('/', async (req, res) => {
    try {
        const collection = await dbConnect(); // Connect to MongoDB
        const result = await collection.find().toArray(); // Query the collection
        res.send(result); // Send response
    } catch (error) {
        console.error('Error:', error); // Log any errors
       res.status(500).send('Internal Server Error'); // Send a generic error
response
    }
});
//post API
app.post('/',async(req,res)=>{
    let result = await dbConnect();
    result = await result.insertOne(req.body);
    res.send("Data Inserted Successfully")
});
//put API
```

```
app.put('/:name',async(req,res)=>{
    let result = await dbConnect();
    result = await result.updateOne({name:req.params.name},{$set:req.body});
    res.send("Data updated Successfully")
});

// delete API
app.delete('/:name',async(req,res)=>{
    let result = await dbConnect();
    result = await result.deleteOne({name:req.params.name});
    res.send("Data deleted Successfully")
});

const PORT = 3000;
app.listen(PORT, () => {
    console.log(`Server is running on http://localhost:${PORT}`);
});
```

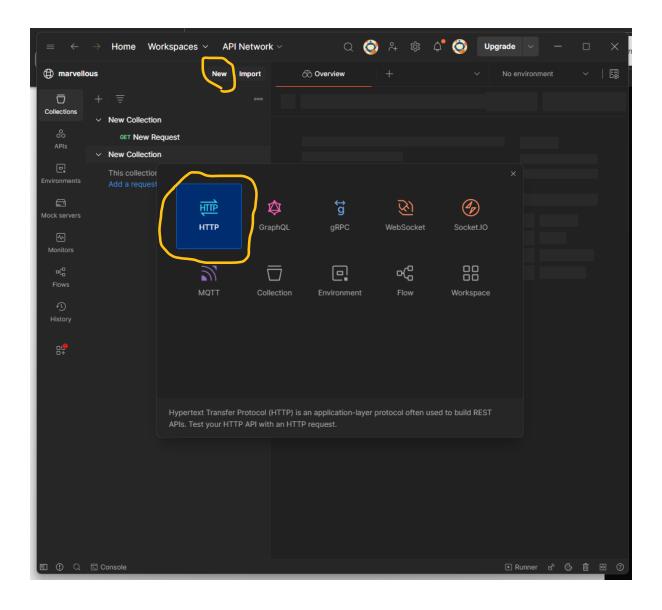
## 14. To run code, open cmd for practical folder then following cmd command enter :

>node index.js

### 15. Then open the postman

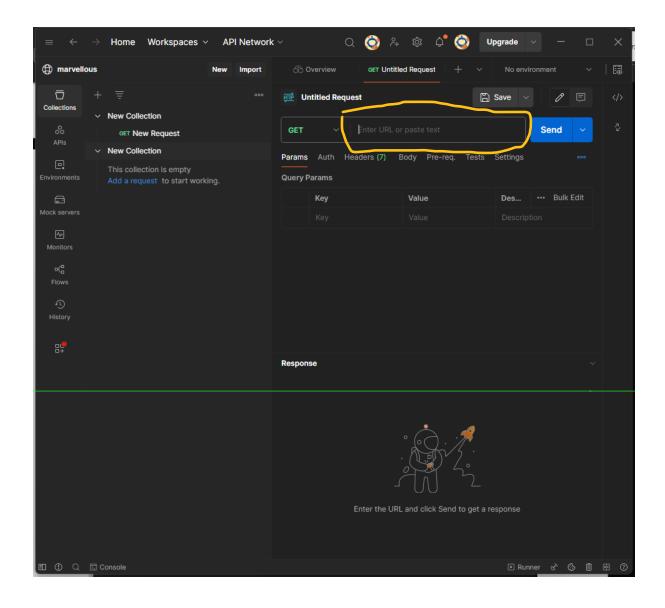
Note = connect the internet your computer or laptop

Then open postman and click on new button and then click on HTTP



# 16. Enter the URL in it as follow as:

URL = http://localhost:3000



17. After the enter the URL select get method and JSON formate and send the request as follow as:

