Practical - 5

Name: Devansh Sharma

ID: GF202346316

Link: https://github.com/Devsharma511/NodeJs.git

Problem 1: Emit an event "greet" and listen to it.

```js
const EventEmitter = require('events');
const myEmitter = new EventEmitter();

const eventName = 'greet';

myEmitter.on(eventName, (name) => {
  console.log(`Hello, ${name}! The '${eventName}' event was received.`);
});

console.log("Emitting the 'greet' event...");
myEmitter.emit(eventName, 'NodeJS');
console.log("Script finished.");
```

Output:

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS C:\Users\sharm\nodejs\Practical-5> node script
Emitting the 'greet' event...
Hello, NodeJS! The 'greet' event was received.
Script finished.
PS C:\Users\sharm\nodejs\Practical-5>
```

Problem 2: Connect Node.js to MongoDB and insert a user record.

```js
const { MongoClient } = require('mongodb');   783.7k (gzipped: 205.5k)

const uri = "mongodb://127.0.0.1:27017";

const client = new MongoClient(uri);

async function run() {
  try {
    await client.connect();
    console.log("Connected to MongoDB");

    const database = client.db('testDB');
    const users = database.collection('users');

    const user = { name: "Devansh Sharma", age: 20, email: "devansh@example.com" };

    const result = await users.insertOne(user);
    console.log("User inserted with ID:", result.insertedId);
  } catch (err) {
    console.error("Error:", err);
  } finally {
    await client.close();
  }
}

run();
```

Output:

```
PS C:\Users\sharm\nodejs\Practical-5> node user
Connected to MongoDB
User inserted with ID: new ObjectId('68c98f74c076c20a7145b353')
PS C:\Users\sharm\nodejs\Practical-5>
```