

```
const readline = require("readline");
```

```
// Create readline interface
```

```
const rl = readline.createInterface({  
  input: process.stdin,  
  output: process.stdout  
});
```

```
// Array to store student records
```

```
const studentRecords = [];
```

```
// Function to add a new student record
```

```
function addStudentRecord(name, id,  
  phone, address) {  
  const newStudent = {  
    name: name,  
    id: id,  
    phone: phone,  
    address: address  
  };
```

```
    studentRecords.push(newStudent);  
}
```

// Function to search student records
based on a query

```
function searchStudentRecords(query) {  
    query = query.toLowerCase();
```

// Filter student records based on the
query

```
    const results =  
    studentRecords.filter(student => {  
        const { name, id, phone, address } =  
        student;  
        const lowerCaseName =  
        name.toLowerCase();  
        const lowerCaseId = id.toLowerCase();  
        const lowerCasePhone =  
        phone.toLowerCase();  
        const lowerCaseAddress =  
        address.toLowerCase();
```

```
// Check if query matches name, ID,  
phone, or address
```

```
return (  
    lowerCaseName.includes(query) ||  
    lowerCaseId.includes(query) ||  
    lowerCasePhone.includes(query) ||  
    lowerCaseAddress.includes(query)  
);  
});
```

```
return results;  
}
```

```
// Function to display student records  
function displayStudentRecords(records) {  
    if (records.length === 0) {  
        console.log("No matching records  
found.");  
        return;  
    }  
}
```

```
console.log("Search results:");
records.forEach(record => {
    console.log(`Name: ${record.name}`);
    console.log(`ID: ${record.id}`);
    console.log(`Phone: ${record.phone}`);
    console.log(`Address: ${record.address}`);
});
console.log("-----");
});
}
```

// Function to handle user input for adding a student record

```
function promptAddStudentRecord() {
    rl.question("Enter student name: ", name
=> {
        rl.question("Enter student ID: ", id => {
            rl.question("Enter student phone
number: ", phone => {
                rl.question("Enter student address: ",
```

```
address => {  
    addStudentRecord(name, id, phone,  
address);  
    console.log("Student record added  
successfully.");  
    promptMenu();  
});  
});  
});  
});  
});  
}
```

```
// Function to handle user input for  
searching student records  
function promptSearchStudentRecords() {  
    rl.question("Enter search query: ", query  
=> {  
        const searchResults =  
searchStudentRecords(query);  
        console.log(`Search results for "$  
{query}":`);
```

```
    displayStudentRecords(searchResults);  
    promptMenu();  
});  
}
```

// Function to display the menu and handle user input

```
function promptMenu() {  
    console.log("\nMenu:");  
    console.log("1. Add a student record");  
    console.log("2. Search for student  
records");  
    console.log("3. Exit");
```

```
    rl.question("Enter your choice: ", choice  
=> {  
        switch (choice) {  
            case "1":  
                promptAddStudentRecord();  
                break;  
            case "2":
```

```
        promptSearchStudentRecords();
        break;
    case "3":
        rl.close();
        break;
    default:
        console.log("Invalid choice. Please try
again.");
        promptMenu();
        break;
    }
});
}
```

```
// Start the program
console.log("Welcome to the Student
Records System!");
promptMenu();
```