Task 1:

Task 2:

Display all students:

```
Welcome to the Student Management System.

1. Add a Student.

2. Search for Student by ID.

3. Display all Students in System.

4. Exit Management System.

Please enter your selection :3

All Students:
ID: 1, Name: Mike
ID: 2, Name: Lewis
ID: 3, Name: Aria
```

Add student:

```
Please enter your selection : 1
Enter Student Name: Sarah
Enter Student ID: 4
Student: Sarah added to system.
```

Search by ID:

```
Please enter your selection :2
Enter ID of Student:
2
Student found: ID: 2, Name: Lewis
```

Error handling:

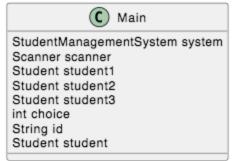
Invalid system option input:

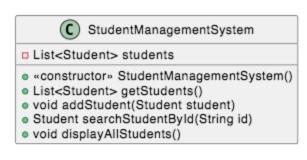
```
Please enter your selection :f
Invalid option. Please enter a valid number.
```

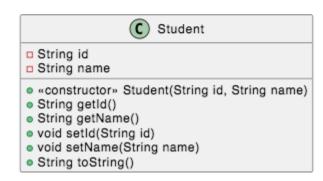
ID not in list:

Please enter your selection :2
Enter ID of Student:
f
Student f not found.

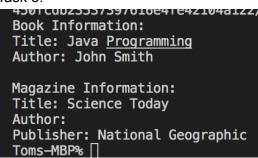
Task 2 UML:







Task 3:



Task 3 UML:

