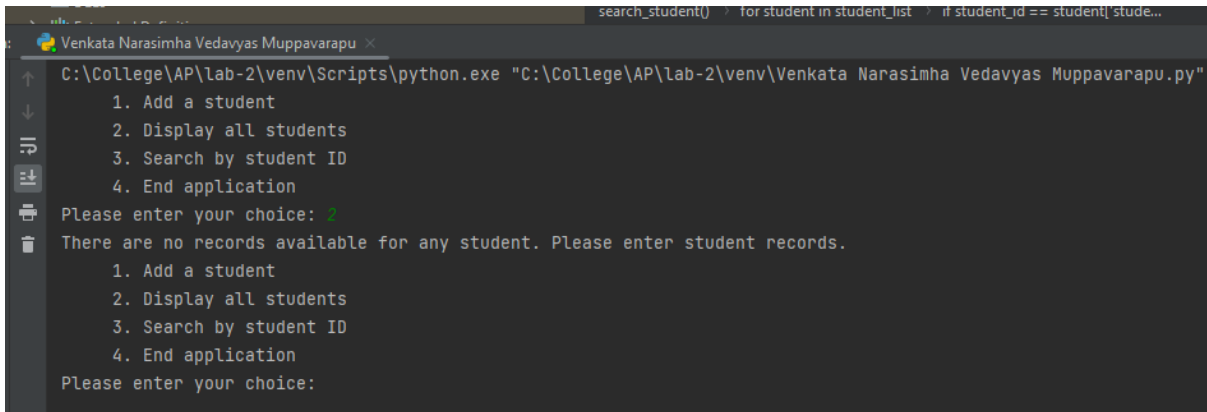
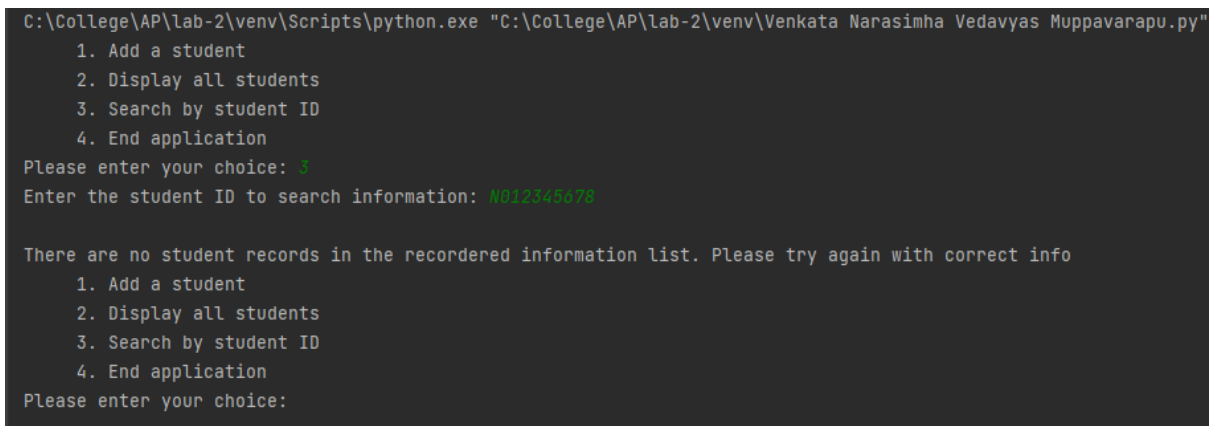


If user choses option 2, to display all students, without adding any student in the records list, then following message is displayed:



```
search_student() for student in student_list if student_id == student[stude...
Venkata Narasimha Vedavyas Muppavarapu
C:\College\AP\lab-2\venv\Scripts\python.exe "C:\College\AP\lab-2\venv\Venkata Narasimha Vedavyas Muppavarapu.py"
1. Add a student
2. Display all students
3. Search by student ID
4. End application
Please enter your choice: 2
There are no records available for any student. Please enter student records.
1. Add a student
2. Display all students
3. Search by student ID
4. End application
Please enter your choice:
```

If user choses option 3 to search student by student ID (but there are no students in the list or list is empty) then following message is displayed:



```
C:\College\AP\lab-2\venv\Scripts\python.exe "C:\College\AP\lab-2\venv\Venkata Narasimha Vedavyas Muppavarapu.py"
1. Add a student
2. Display all students
3. Search by student ID
4. End application
Please enter your choice: 3
Enter the student ID to search information: 8012345678
There are no student records in the recordered information list. Please try again with correct info
1. Add a student
2. Display all students
3. Search by student ID
4. End application
Please enter your choice:
```

Following shows that if user does not enter correct format of student ID, (e.g. valid student ID starts with 'NO'.....)

```
4. End application
Please enter your choice: 1
Enter first name: Sai
Enter last name: Rajeev
Enter student ID: N12345678
Enter program name: Computer Science
Invalid student ID format - need to continue
Students cannot be saved in the registration list!
1. Add a student
2. Display all students
3. Search by student ID
4. End application
Please enter your choice:
```

If user enters student ID that is not 9-characters, then again following message is displayed:

```
4. End application
Please enter your choice: 1
Enter first name: Sai
Enter last name: Rajeev
Enter student ID: NO12345678
Enter program name: Computer Science
Invalid student ID format - need to continue
Students cannot be saved in the registration list!
1. Add a student
2. Display all students
3. Search by student ID
4. End application
Please enter your choice:
```

In the following example, if user enters lower case 'n', again student is not added to the record list:

```
4. End application
Please enter your choice: 1
Enter first name: sai
Enter last name: rajeev
Enter student ID: n01234567
Enter program name: Computer science
Invalid student ID format - need to continue
Students cannot be saved in the registration list!
1. Add a student
2. Display all students
3. Search by student ID
4. End application
Please enter your choice:
```

If student number (ID) is valid and student ID is not already in the record list, then following students are added to the records list:

```
1. Add a student
2. Display all students
3. Search by student ID
4. End application
Please enter your choice: 1
Enter first name: Sai
Enter last name: Rajeev
Enter student ID: N01234567
Enter program name: Computer Engineering
Adding Student information in student records
1. Add a student
2. Display all students
3. Search by student ID
4. End application
Please enter your choice: 1
Enter first name: Vedavyas
Enter last name: Muppavarapu
Enter student ID: N02468012
Enter program name: Computer Science
Adding Student information in student records
1. Add a student
2. Display all students
3. Search by student ID
4. End application
Please enter your choice: 1
Enter first name: Dev
Enter last name: Satya
Enter student ID: N03456789
Enter program name: Computer Systems
Adding Student information in student records
1. Add a student
2. Display all students
3. Search by student ID
4. End application
Please enter your choice:
```

When user choses option 2, complete record of students is displayed. This is shown below:

```
4. End application
Please enter your choice: 2

Venkata Narasimha Vedavyas Muppavarapu
N01583267

-----
First Name      Last name      Student ID      Program Enrolled
-----
Sai             Rajeev         N01234567       Computer Engineering
Dev             Satya          N02468012       Computer Science
Ram             Prasad         N03456789       Computer Systems

1. Add a student
2. Display all students
3. Search by student ID
4. End application
Please enter your choice:
```

If a student needs to register but the student ID already exists, then student is NOT added and the following message is displayed because student is already enrolled and is part of the records list. The name may or may not be the same, as system checks for student ID to differentiate valid student information to enrol in the system.

```
Please enter your choice: 1
Enter first name: Dev
Enter last name: Satya
Enter student ID: N02468012
Enter program name: Computer Science
Student having N02468012 student ID is already exists.
As Student having N02468012 already exists, so Dev Satya is not added
1. Add a student
2. Display all students
3. Search by student ID
4. End application
Please enter your choice:
```

When user choses option number 3, to search a student by student ID, following is displayed if student record search is successful:

```
Please enter your choice: 3
Enter the student ID to search information: N02468012
Student is found in the list

Venkata Narasimha Vedavyas Muppavarapu
N01583267

-----
First Name      Last Name      Student ID      Program Enrolled
-----
Dev             Satya          N02468012       Computer Science

1. Add a student
2. Display all students
3. Search by student ID
4. End application
Please enter your choice:
```

If the student (searched by student ID) is not in the given list, then following message is displayed:

```
Please enter your choice: 3
Enter the student ID to search information: N01278979
Student is not registered in the institution

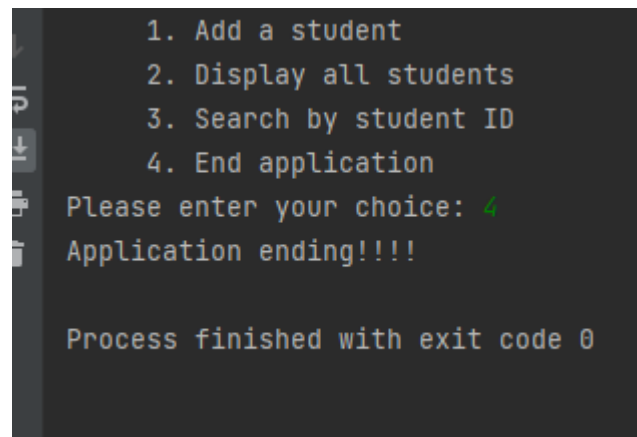
1. Add a student
2. Display all students
3. Search by student ID
```

If user enters choice (instead of 1, 2, 3 or 4) that is different from the requirements in the application, following message is displayed ("**Enter correct option**"):

```
Please enter your choice: a
Enter correct option

1. Add a student
2. Display all students
3. Search by student ID
4. End application
Please enter your choice:
```

When user chooses option 4 to end the application, your program displays the message that it was ending and ends the application. This is shown below:

A screenshot of a terminal window with a dark background. On the left side, there is a vertical sidebar with icons for file management (back, forward, home, search, etc.). The terminal text is as follows:

```
1. Add a student
2. Display all students
3. Search by student ID
4. End application
Please enter your choice: 4
Application ending!!!!

Process finished with exit code 0
```