OUTPUT

```
291                    break;
292              case 8:
293                    showDistinctionAwardStudents();
294                    break;
295              case 9:
296                    printf("Exiting...\n");
297                    exit(0);
```

DEBUG CONSOLE   PORTS   TERMINAL   Code

```
PS C:\Users\adity> cd "c:\Users\adity\Desktop\" ; if ($?) { gcc dsa_project.c -o dsa_project } ; if ($?) { .\dsa_project }

1. Add a student
2. Display student information
3. Search by roll number
4. Show subject toppers
5. Scholarship eligibility
6. Show Failures
7. Show Average Marks in Each Subject
8. Show Distinction Award Students
9. Exit
Enter your choice:
```

File   Edit   Selection   View   Go   Run   ...   Search

C dsa_project.c ✕

C: > Users > adity > Desktop > C dsa_project.c > ⊗ main()

```
291                    break;
292              case 8:
293                    showDistinctionAwardStudents();
294                    break;
295              case 9:
296                    printf("Exiting...\n");
297                    exit(0);
```

DEBUG CONSOLE   PORTS   TERMINAL   Code

```
6. Show Failures
7. Show Average Marks in Each Subject
8. Show Distinction Award Students
9. Exit
Enter your choice: 1
Enter name: aman
Enter roll number: 4
Enter class: 1
Enter section: d
Enter marks for DDCO: 33
Enter marks for DSA: 32
Enter marks for AFLL: 12
Enter marks for SDS: 45

1. Add a student
2. Display student information
3. Search by roll number
4. Show subject toppers
5. Scholarship eligibility
```

Ln 295, Col 20   Spaces: 4   UTF-8   CRLF   {} C   Go Live   Win32

C dsa_project.c ✕

C: > Users > adity > Desktop > C dsa_project.c > ⊗ main()

```c
291             break;
292         case 8:
293             showDistinctionAwardStudents();
294             break;
295         case 9:
296             printf("Exiting...\n");
297             exit(0);
```

DEBUG CONSOLE   PORTS   TERMINAL

```
    3. Search by roll number
    4. Show subject toppers
    5. Scholarship eligibility
    6. Show Failures
    7. Show Average Marks in Each Subject
    8. Show Distinction Award Students
    9. Exit
Enter your choice: 1
Enter name: abhiram
Enter roll number: 3
Enter class: 1
Enter section: s
Enter marks for DDCO: 89
Enter marks for DSA: 88
Enter marks for AFLL: 87
Enter marks for SDS: 86

    1. Add a student
    2. Display student information
```

Ln 295, Col 20   Spaces: 4   UTF-8   CRLF   {} C   Go Live   Win32

C dsa_project.c ✕

C: > Users > adity > Desktop > C dsa_project.c > ⊗ main()

```c
291             break;
292         case 8:
293             showDistinctionAwardStudents();
294             break;
295         case 9:
296             printf("Exiting...\n");
297             exit(0);
```

DEBUG CONSOLE   PORTS   TERMINAL

```
    3. Search by roll number
    4. Show subject toppers
    5. Scholarship eligibility
    6. Show Failures
    7. Show Average Marks in Each Subject
    8. Show Distinction Award Students
    9. Exit
Enter your choice: 1
Enter name: adi
Enter roll number: 2
Enter class: 1
Enter section: a
Enter marks for DDCO: 89
Enter marks for DSA: 78
Enter marks for AFLL: 77
Enter marks for SDS: 67

    1. Add a student
    2. Display student information
```

Ln 295, Col 20   Spaces: 4   UTF-8   CRLF   {} C   Go Live   Win32

```c
291             break;
292         case 8:
293             showDistinctionAwardStudents();
294             break;
295         case 9:
296             printf("Exiting...\n");
297             exit(0);
```

Terminal output:
```
5. Scholarship eligibility
6. Show Failures
7. Show Average Marks in Each Subject
8. Show Distinction Award Students
9. Exit
Enter your choice: 1
Enter name: ajay
Enter roll number: 1
Enter class: 1
Enter section: a
Enter marks for DDCO: 99
Enter marks for DSA: 98
Enter marks for AFLL: 97
Enter marks for SDS: 96

1. Add a student
2. Display student information
3. Search by roll number
4. Show subject toppers
```



```c
291             break;
292         case 8:
293             showDistinctionAwardStudents();
294             break;
295         case 9:
296             printf("Exiting...\n");
297             exit(0);
```

Terminal output:
```
7. Show Average Marks in Each Subject
8. Show Distinction Award Students
9. Exit
Enter your choice: 2

Student Information:
--------------------------------------------------------------------------
| Name          | Roll Number | Class | Section | DDCO | DSA | AFLL | SDS |
--------------------------------------------------------------------------
| ajay          | 1           | 1     | a       | 96   | 97  | 98   | 99  |
| adi           | 2           | 1     | a       | 67   | 77  | 78   | 89  |
| abhiram       | 3           | 1     | s       | 86   | 87  | 88   | 89  |
| aman          | 4           | 1     | d       | 45   | 12  | 32   | 33  |
--------------------------------------------------------------------------

1. Add a student
2. Display student information
3. Search by roll number
4. Show subject toppers
```

```c
291              break;
292          case 8:
293              showDistinctionAwardStudents();
294              break;
295          case 9:
296              printf("Exiting...\n");
297              exit(0);
```

DEBUG CONSOLE   PORTS   TERMINAL

```
6. Show Failures
7. Show Average Marks in Each Subject
8. Show Distinction Award Students
9. Exit
Enter your choice: 3
Enter roll number to search: 2

Student Information:
Name: adi, Roll Number: 2, Class: 1, Section: a, Marks: 67 77 78 89

1. Add a student
2. Display student information
3. Search by roll number
4. Show subject toppers
5. Scholarship eligibility
6. Show Failures
7. Show Average Marks in Each Subject
8. Show Distinction Award Students
9. Exit
```

Ln 295, Col 20   Spaces: 4   UTF-8   CRLF   {} C   Go Live   Win32

```c
293              showDistinctionAwardStudents();
294              break;
295          case 9:
296              printf("Exiting...\n");
297              exit(0);
298              break;
```

DEBUG CONSOLE   PORTS   TERMINAL

```
7. Show Average Marks in Each Subject
8. Show Distinction Award Students
9. Exit
Enter your choice: 4

Subject Toppers:
DDCO Topper:     ajay  (Roll Number: 1      Class: 1      Section: a      Marks: 96)
DSA Topper:      ajay  (Roll Number: 1      Class: 1      Section: a      Marks: 97)
AFLL Topper:     ajay  (Roll Number: 1      Class: 1      Section: a      Marks: 98)
SDS Topper:      ajay  (Roll Number: 1      Class: 1      Section: a      Marks: 99)

1. Add a student
2. Display student information
3. Search by roll number
4. Show subject toppers
5. Scholarship eligibility
6. Show Failures
7. Show Average Marks in Each Subject
8. Show Distinction Award Students
9. Exit
Enter your choice: ▯
```

Ln 293, Col 48   Spaces: 4   UTF-8   CRLF   {} C   Go Live   Win32

```c
293                showDistinctionAwardStudents();
294                break;
295           case 9:
296                printf("Exiting...\n");
297                exit(0);
298                break;
```

```c
293                showDistinctionAwardStudents();
294                break;
295           case 9:
296                printf("Exiting...\n");
297                exit(0);
298                break;
```

4. Show subject toppers
5. Scholarship eligibility
6. Show Failures
7. Show Average Marks in Each Subject
8. Show Distinction Award Students
9. Exit
Enter your choice: 6

List of Students Who Have Failed:
aman (Roll Number: 4) has failed.

1. Add a student
2. Display student information
3. Search by roll number
4. Show subject toppers
5. Scholarship eligibility
6. Show Failures
7. Show Average Marks in Each Subject
8. Show Distinction Award Students
9. Exit
Enter your choice:

C dsa_project.c ✕

C: > Users > adity > Desktop > C dsa_project.c > ⊗ main()

```
293                    showDistinctionAwardStudents();
294                    break;
295            case 9:
296                    printf("Exiting...\n");
297                    exit(0);
298                    break;
```

DEBUG CONSOLE   PORTS   TERMINAL

```
7. Show Average Marks in Each Subject
8. Show Distinction Award Students
9. Exit
Enter your choice: 7

Average Marks in Each Subject:
DDCO: 73.50
DSA: 68.25
AFLL: 74.00
SDS: 77.50

1. Add a student
2. Display student information
3. Search by roll number
4. Show subject toppers
5. Scholarship eligibility
6. Show Failures
7. Show Average Marks in Each Subject
8. Show Distinction Award Students
9. Exit
Enter your choice: 
```

Ln 293, Col 48   Spaces: 4   UTF-8   CRLF   {} C   Go Live   Win32

C dsa_project.c ✕

C: > Users > adity > Desktop > C dsa_project.c > ⊗ main()

```
293                    showDistinctionAwardStudents();
294                    break;
295            case 9:
296                    printf("Exiting...\n");
297                    exit(0);
298                    break;
```

DEBUG CONSOLE   PORTS   TERMINAL

```
4. Show subject toppers
5. Scholarship eligibility
6. Show Failures
7. Show Average Marks in Each Subject
8. Show Distinction Award Students
9. Exit
Enter your choice: 8

Students Eligible for Distinction Award:
abhiram (Roll Number: 3) is eligible for the distinction award.

1. Add a student
2. Display student information
3. Search by roll number
4. Show subject toppers
5. Scholarship eligibility
6. Show Failures
7. Show Average Marks in Each Subject
8. Show Distinction Award Students
9. Exit
Enter your choice: 
```

Ln 293, Col 48   Spaces: 4   UTF-8   CRLF   {} C   Go Live   Win32

```c
293                    showDistinctionAwardStudents();
294                    break;
295            case 9:
296                    printf("Exiting...\n");
297                    exit(0);
298                    break;
```

```
    6. Show Failures
    7. Show Average Marks in Each Subject
    8. Show Distinction Award Students
    9. Exit
    Enter your choice: 8

    Students Eligible for Distinction Award:
    abhiram (Roll Number: 3) is eligible for the distinction award.

    1. Add a student
    2. Display student information
    3. Search by roll number
    4. Show subject toppers
    5. Scholarship eligibility
    6. Show Failures
    7. Show Average Marks in Each Subject
    8. Show Distinction Award Students
    9. Exit
    Enter your choice: 9
    Exiting...
    PS C:\Users\adity\Desktop>
```