DATA STRUCTURE

Project 1

CODE:

NAME: Md. Hasin Almas Mitul
ID: 213-15-4617
SECTION: 61_D

```c
#include <stdio.h>

#include <stdlib.h>

#include <string.h>


struct student_info {

    int id;

    char name[50], section[50], semester[50];

    float cgpa;

};

int main() {

    int n;

    printf("Number of Students: ");

    scanf("%d", &n);

    struct student_info s[n];

    for (int i = 0; i < n; i++) {

        printf("ID: ");

        scanf("%d", &s[i].id);

        fflush(stdin);

        printf("Name: ");

        gets(s[i].name);

        fflush(stdin);

        printf("Section: ");

        gets(s[i].section);

        fflush(stdin);

        printf("Semester: ");

        gets(s[i].semester);

        fflush(stdin);

        printf("Grade: ");
```

```c
        scanf("%f", &s[i].cgpa);

        fflush(stdin);

    }

    printf("NAME      ID   SECTION CGPA SEMESTER\n");

    for (int i = 0; i < n; i++) {

        printf("%-10s %-4d %-7s %-5.2f %s\n",

            s[i].name,

            s[i].id,

            s[i].section,

            s[i].cgpa,

            s[i].semester);

    }

    return 0;

}
```

OUTPUT :


```
Number of Students: 5
ID: 101
Name: Musa
Section: A
Semester: FALL 2023
Grade: 3.50
ID: 102
Name: Daud
Section: B
Semester: FALL 2023
Grade: 2.89
ID: 103
Name: Selim
Section: C
Semester: FALL 2023
Grade: 3.14
ID: 104
Name: Shakil
Section: D
Semester: FALL 2023
Grade: 3.66
ID: 105
Name: Arnob
Section: D
Semester: FALL 2023
Grade: 2.40
NAME        ID    SECTION CGPA SEMESTER
Musa        101   A       3.50  FALL 2023
Daud        102   B       2.89  FALL 2023
Selim       103   C       3.14  FALL 2023
Shakil      104   D       3.66  FALL 2023
Arnob       105   D       2.40  FALL 2023

Process returned 0 (0x0)    execution time : 213.042 s
```