Assignment 3: Database of students

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Batch: A2

Code:

```
#include <stdio.h>
#include <string.h>
void display(int n);
struct student
   char name[50];
   float avg;
struct student s[5], temp;
int main()
   printf("Enter the number of the students: ");
   scanf("%d", &n);
printf("-----
       printf("Enter the information of the student %d.\n", i + 1);
       printf("Enter the Roll no: ");
```

```
printf("Enter the name: ");
       printf("Enter the marks of DS, DE, SS: ");
       s[i].avg = s[i].total / n;
   display(n);
   while (1)
       int ch, a, pos, n1, m, p, roll, new;
       char search[30];
       printf("\nMenu\n1.Search\n2.Append\n3.Sorting\n4.Modify\n");
       printf("Enter your choice: ");
       scanf("%d", &ch);
           printf("Enter name: ");
           scanf("%s", search);
               a = strcmp(search, s[i].name);
                   pos = i;
               printf("|\tRoll
no\t|\tName\t|\tDS\t|\tDE\t|\tSS\t|\tTotal\t|\tAvg\t\t|\n");
```

```
printf("\n|\t%d\t|\t%s\t|\t%d\t|\t%d\t|\t%d\t|\t%d\t|\t%f\t|\n",
s[pos].roll_no, s[pos].name, s[pos].DS, s[pos].DE, s[pos].SS,
s[pos].total, s[i].avg);
               printf("Name not found.\n");
           printf("Enter the entries to be add: ");
           scanf("%d", &n1);
                printf("Enter the information of the student %d.\n", i + i
1);
                printf("Enter the Roll no: ");
               printf("Enter the name: ");
                scanf("%s", s[i].name);
                printf("Enter the marks of DS, DE, SS: ");
                scanf("%d%d%d", &s[i].DS, &s[i].DE, &s[i].SS);
                s[i].total = (s[i].DS + s[i].DE + s[i].SS);
                s[i].avg = s[i].total / n;
            printf("The updated database is as follows\n");
           display(n);
```

```
for (int c = 0; c < n - p; c++)
            temp = s[c];
            s[c + 1] = temp;
display(n);
printf("\nEnter the roll no that you want to modify: ");
printf("Enter the new roll no: ");
scanf("%d", &new);
    if (s[i].roll no == roll)
printf("The updated database is as follows\n");
display(n);
```

```
void display(int n)
  int i;
   printf("The Student database is as follows.\n");
printf("----------
  printf("|\tRoll
no\t|\tName\t|\tDS\t|\tDE\t|\tSS\t|\tTotal\t|\tAvg\t\t|\n");
printf("-----
 -----\n");
      printf("| \t % d \t | \t % f \t | \n",
s[i].roll_no, s[i].name, s[i].DS, s[i].DE, s[i].SS, s[i].total, s[i].avg);
         ----\n");
```

Output:

D:\OneDrive\Dokumen\Clg_work\Assignments\" && gcc 3struct.c -o 3struct && "d:\OneDrive\Dokumen\Clg_work\Assignments\" 3struct Enter the number of the students: 3

Enter the information of the student 1.

Enter the Roll no: 1
Enter the name: Aarya

Enter the marks of DS, DE, SS: 23 24 25

Enter the information of the student 2.

Enter the Roll no: 2

Enter the name: Aboli

Enter the marks of DS, DE, SS: 25 15 22

Enter the information of the student 3.

Enter the Roll no: 3 Enter the name: Rixvi

Enter the marks of DS, DE, SS: 25 25 25

The Student database is as follows.

	Rol	I no	Name	[os Os		DE	 	SS		Total	Avg	
	1		Aarya	23		24		25		72		24.000000	1
 	2		Aboli	25		15		22		62		20.000000	
Ī	3		Rixvi	25		25		25		75	l	25.000000	

Menu

- 1.Search
- 2.Append
- 3.Sorting
- 4.Modify

Enter your choice: 1
Enter name: Aarya

I	Roll no	Name)S	D	E		SS		Total	Avg	
 I	1	 Aarya	23		24		25	 I	72	 I	24.000000	ı

Enter your choice: 2

Enter the entries to be add: 1

Enter the information of the student 4.

Enter the Roll no: 4 Enter the name: Trisha

Enter the marks of DS, DE, SS: 10 14 17 The updated database is as follows The Student database is as follows.

	Rol	l no	Name	C	os OS		DE		SS		Total	Avg	I
	1	I	Aarya	23		24		25		72		24.000000	
	2		Aboli	25		15		22		62		20.000000	