

# ARRAY OF STRUCTURE

PROGRAM:

```
#include <stdio.h>

struct student
{
    char name[20];
    int roll;
    float mark;
};

int main()
{
    struct student s[4];
    int i;
    printf("STUDENTS DETAILS\n");
    for( i=0;i<3;i++){
        printf("\nenter your name : ");
        scanf("%s",&s[i].name);
        printf("\nroll no : ");
        scanf("%d",&s[i].roll);
        printf("\nmarks : ");
        scanf("%f",&s[i].mark);
    }
```

```
    printf("DETIALS OF STUDENTS:- \n");
    printf("\nNAME\t\tROLLNO\t\tMARKS");
    for( i=0;i<3;i++){

        printf("\n%s\t\t%d\t\t%f\n",s[i].name,s[i].roll,s[i].mark
    );
    }
    return 0;
}
```

OUTPUT:

## STUDENTS DETAILS

enter your name : greeshma

roll no : 1

marks : 89.99

enter your name : reshma

roll no : 2

marks : 99.9

enter your name : remya

roll no : 3

enter your name : remya

roll no : 3

marks : 88.95

DETIALS OF STUDENTS:-

NAME	ROLLNO	MARKS
greeshma	1	89.989998
reshma	2	99.900002
remya	3	88.949997

> |

## STRING HANDLING FUNCTIONS

1.strcat(): used to combine two strings

Program:

```
#include <stdio.h>
#include<string.h>

int main() {

    char s[]="hello";
    char s1[]="world";
    printf("%s",strcat(s,s1));

    return 0;
}
```

Output:

```
helloworld
```

2.strlen(): used to show the length of string

Program:

```
#include <stdio.h>
#include<string.h>

int main() {

    char s[]="hello";
    printf("length = %d",strlen(s));

    return 0;
}
```

Output:

```
length = 5
```

3.strcmp(): used to compare two strings

Program:

```
#include <stdio.h>
#include<string.h>

int main() {

    char s[]="hello";
    char s1[]="helle";
    printf("%d",strcmp(s,s1));

    return 0;
}
```

Output:

10

4.strcpy(): copies one string to another

Program:

```
#include <stdio.h>
#include<string.h>

int main() {

    char s[20], s1[20];
    strcpy(s,"hello");
    strcpy(s1,s);
    printf("%s",s1);

    return 0;
}
```

Output:

hello

5.strlwr() &strupr() : used to convert the input to lower case and upper case

Program:

```
#include <stdio.h>
#include<string.h>

int main() {

    char s[]="welcome";

    printf("%s",strlwr(s));
    printf("%s",strupr(s));

    return 0;
}
```

Output:

welcomeWELCOME