

STRUCTURES

SARTHAK SANAY

(1) AIM:-

To write a program in C to calculate the total and average marks of students using structures.

CODE:-

```
#include <stdio.h>
struct student
{
    int rollNo;
    char name[100];
    int marks;
};
int main()
{
    struct student s1 = {1, "Akash", 75};
    struct student s2 = {2, "Sankalp", 92};
    struct student s3 = {3, "Anshul", 65};
    struct student s4 = {4, "Naman", 82};
    struct student s5 = {5, "Yuvraj", 54};
    int totalMarks = s1.marks + s2.marks + s3.marks + s4.marks + s5.marks;
    double avgMarks = totalMarks/5;
    printf("Total marks:  %d\n", totalMarks);
    printf("Average marks:  %.2f", avgMarks);
    return 0;
}
```

OUTPUT SCREEN:-

Output

/tmp/itQ6BFpzs4.o

Total marks: 368

Average marks: 73.00

(2) AIM:-

To write a program in C to store employee information (name, ID, salary) and then display it using structures.

CODE:-

```
#include <stdio.h>
struct employee
{
    int empId;
    char name[100];
    int salary;
};
int main()
{
    struct employee e1 = {12, "Shashank Kashyap", 600000};
    struct employee e2 = {34, "Vatsal Kumar", 450000};
    struct employee e3 = {38, "Siddhant Tripathi", 1200000};
    struct employee e4 = {56, "Neel Pandey", 780000};
    struct employee e5 = {61, "Karan Singh", 1150000};
    printf("Employee Structure:-\n");
    printf("Id: %d\t    Name: %s\t Salary: Rs. %d\t\n", e1.empId, e1.name,
        e1.salary);
    printf("Id: %d\t    Name: %s\t\t Salary: Rs. %d\t\n", e2.empId, e2.name,
        e2.salary);
    printf("Id: %d\t    Name: %s\t Salary: Rs. %d\t\n", e3.empId, e3.name,
        e3.salary);
    printf("Id: %d\t    Name: %s\t\t Salary: Rs. %d\t\n", e4.empId, e4.name,
        e4.salary);
    printf("Id: %d\t    Name: %s\t\t Salary: Rs. %d\t\n", e5.empId, e5.name,
        e5.salary);
    return 0;
}
```

OUTPUT SCREEN:-

Employee Structure:-

Id: 12	Name: Shashank Kashyap	Salary: Rs. 600000
Id: 34	Name: Vatsal Kumar	Salary: Rs. 450000
Id: 38	Name: Siddhant Tripathi	Salary: Rs. 1200000
Id: 56	Name: Neel Pandey	Salary: Rs. 780000
Id: 61	Name: Karan Singh	Salary: Rs. 1150000