

C++ PROGRAMS

Structure

C++ Program to assign data to members of a structure variable and display it.

```
#include<iostream>
using namespace std;
struct proff
{
    char name[50];
    int age;
    float salary;
};

int main()
{
    Proff p;

    cout << "Enter Full name: ";
    cin.get(p.name, 50);
    cout << "Enter age: ";
    cin >> p.age;
    cout << "Enter salary: ";
    cin >> p.salary;

    cout << "\nDisplaying Information." << endl;
    cout << "Name: " << p.name << endl;
    cout << "Age: " << p.age << endl;
    cout << "Salary: " << p.salary;

    return 0;
}
```

C++ Program to Store Information of a Student in a Structure.

```
#include<iostream>
using namespace std;
struct student
{
    char name[50];
    int roll;
    float marks;
};

int main()
{
    student s;
    cout << "Enter information," << endl;
    cout << "Enter name: ";
    cin >> s.name;
    cout << "Enter roll number: ";
```

```

    cin >> s.roll;
    cout << "Enter marks: ";
    cin >> s.marks;

    cout << "\nDisplaying Information," << endl;
    cout << "Name: " << s.name << endl;
    cout << "Roll: " << s.roll << endl;
    cout << "Marks: " << s.marks << endl;
    return 0;
}

```

C++ Program to Store and Display Information of Employees Using Structure

```

#include<iostream>
using namespace std;
struct employee
{
    char ename[50];
    int eid;
    float salary;
} e[10];

int main()
{
    cout << "Enter information of employees: " << endl;

    // storing information
    for(int i = 0; i < 10; ++i)
    {
        e[i].eid = i+1;
        cout << "For roll number" << e[i].eid << "," << endl;

        cout << "Enter name: ";
        cin >> e[i].ename;

        cout << "Enter marks: ";
        cin >> e[i].salary;

        cout << endl;
    }

    cout << "Displaying Information: " << endl;

    // Displaying information
    for(int i = 0; i < 10; ++i)
    {
        cout << "\nEmployee id is: " << i+1 << endl;
        cout << " Employee Name: " << e[i].ename << endl;
        cout << "Employee salary: " << e[i].salary << endl;
    }

    return 0;
}

```

C++ Program To Add Two Distances (in inch-feet) Using Structures

```
#include<iostream>
using namespace std;
struct Distance {
    int feet;
    float inch;
}d1 , d2, sum;

int main() {
    cout << "Enter 1st distance," << endl;
    cout << "Enter feet: ";
    cin >> d1.feet;
    cout << "Enter inch: ";
    cin >> d1.inch;

    cout << "\nEnter information for 2nd distance" << endl;
    cout << "Enter feet: ";
    cin >> d2.feet;
    cout << "Enter inch: ";
    cin >> d2.inch;

    sum.feet = d1.feet+d2.feet;
    sum.inch = d1.inch+d2.inch;

    // changing to feet if inch is greater than 12
    if(sum.inch > 12) {

        int extra = sum.inch / 12;

        sum.feet += extra;
        sum.inch -= (extra * 12);
    }

    cout << endl << "Sum of distances = " << sum.feet << " feet  " << sum.inch <<
    " inches";
    return 0;
}
```