```cpp
//1. Create a structure to store a student's details, write a main function to perform input and display output.


#include<bits/stdc++.h>
using namespace std;

// Create the student structure
struct Student {
    char* name;
    int roll_number;
    int age;
    double total_marks;
};

// Driver code
int main()
{
    int i = 0, n = 3;

    // Create the student's structure variable
    // with n Student's records
    struct Student student[n];

    // Get the students data
    student[0].roll_number = 2239546;
    student[0].name = "Dushyant";
    student[0].age = 80;
    student[0].total_marks = 10.02;

    student[1].roll_number = 2343557;
    student[1].name = "Rahul";
    student[1].age =18;
    student[1].total_marks = 90;

    student[2].roll_number = 224893;
    student[2].name = "Abhi";
    student[2].age = 19;
    student[2].total_marks = 87.94;



    // Print the Students information
```

```
   cout<<"Student Records:\n\n";
    for (i = 0; i < n; i++) {
        cout<<"Name = "<< student[i].name<<endl;;
        cout<<"Roll Number = "<<student[i].roll_number<<endl;;
        cout<<"Age = "<< student[i].age<<endl;
        cout<<"Total Marks = "<< student[i].total_marks<<endl;
    }

    return 0;
}
```

output

Student Records:

Name = Dushyant
Roll Number = 2239546
Age = 80
Total Marks = 10.02
Name = Rahul
Roll Number = 2343557
Age = 18
Total Marks = 90
Name = Abhi
Roll Number = 224893
Age = 19
Total Marks = 87.94

```
// create a structure to store a complex number and write a program to perform addition of two complex numbers.


#include<bits/stdc++.h>
using namespace std;

struct Complex {

    int real, imaginary;
   Complex(int tempReal = 0, int tempImaginary = 0)
    {
        real = tempReal;
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        imaginary = tempImaginary;
    }

    Complex addComp(Complex C1, Complex C2)
    {
        Complex temp;
    temp.real = C1.real + C2.real;

        temp.imaginary = C1.imaginary + C2.imaginary;
     return temp;
    }
};


   int main()
{
 Complex C1(3, 2);
     cout<<"Complex number 1 : "<< C1.real
                 << " + i"<< C1.imaginary<<endl;
       Complex C2(9, 5);

    cout<<"Complex number 2 : "<< C2.real
                 << " + i"<< C2.imaginary<<endl;

     Complex C3;
  C3 = C3.addComp(C1, C2);

    cout<<"Sum of complex number : "
                        << C3.real << " + i"
                        << C3.imaginary;
}
```

Output

Complex number 1 : 3 + i2
Complex number 2 : 9 + i5
Sum of complex number : 12 + i7