



**NETROKONA UNIVERSITY , NETROKONA**

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## **CLP 4- structure**

**Submitted by**

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1.

```
// Najmul Huda
#include <bits/stdc++.h>
using namespace std;
#include <string.h>
#include <string.h>
struct Student
{
    string name;
    int roll_number;
    float marks;
};
int main()
{
    struct Student s1;
    cout << "Enter Student Name,Roll & Marks : ";
    cin >> s1.name >> s1.roll_number >> s1.marks;
    cout << "Student name : " << s1.name << "\nRoll : " << s1.roll_number <<
"\nMarks : " << s1.marks << endl;
    return 0;
}
```

2.

```
// Najmul Huda
#include <bits/stdc++.h>
using namespace std;
struct Employee
{
    string name;
    int employee_id;
    float salary;
};
int32_t main()
{
    struct Employee arr[5];
    for (int i = 0; i < 5; i++)
    {
        cin >> arr[i].name >> arr[i].employee_id >> arr[i].salary;
    }
    string nam;
    int Id;
    int Highest_salary = INT_MIN;
    for (int i = 0; i < 5; i++)
    {
        if (arr[i].salary > Highest_salary)
    }
```

```

        {
            nam = arr[i].name;
            Id = arr[i].employee_id;
            Highest_salary = arr[i].salary;
        }
    }

    for (int i = 0; i < 5; i++)
    {
        cout << "Employee Name : " << arr[i].name << "\nEmployee ID " <<
arr[i].employee_id << " \nSalary : " << arr[i].salary << "\n\n";
    }
    cout << "Highest salary Details\n";
    cout << "Name: " << nam << "\n Employee ID : " << Id << "\n Salary : "
<< Highest_salary << endl;
    return 0;
}

```

3.

```

// Najmul Huda
#include <bits/stdc++.h>
using namespace std;
struct Date
{
    int day;
    int month;
    int year;
};
struct Person
{
    string name;
    Date birthdate;
};
int32_t main()
{
    struct Person member;
    cin >> member.name;
    cin >> member.birthdate.day >> member.birthdate.month >>
member.birthdate.year;
    cout << "Name : " << member.name << " \nBirthdate : " <<
member.birthdate.day << "/" << member.birthdate.month << "/" <<
member.birthdate.year << endl;
    return 0;
}

```

4.

```
// Najmul Huda
#include <bits/stdc++.h>
using namespace std;
struct Rectangle
{
    float length;
    float width;
    int area;
    void calculateArea()
    {
        area = length * width;
    }
};

int32_t main()
{
    struct Rectangle r1;
    cin >> r1.length >> r1.width;
    r1.calculateArea();
    cout << r1.area << endl;
    return 0;
}
```

5.

```
// Najmul Huda
#include <bits/stdc++.h>
using namespace std;
struct point
{
    int x;
    int y;
    bool arePointsEqual(point a, point b)
    {
        return a.x == b.x && a.y == b.y;
    }
};

int32_t main()
{
    struct point a, b;
    cin >> a.x >> a.y;
    cin >> b.x >> b.y;

    cout << a.arePointsEqual(a, b) << endl;
    return 0;
}
```