

## VIT - Vellore

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### BCSE102P\_Structured and Object Oriented Programming Lab\_VL2024250502365

#### VIT V\_Structured and OOP\_Lab 4\_COD\_Easy\_Array of Structure

Attempt : 1

Total Mark : 10

Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

Create a structure called cricketer that stores the cricketer's information such as name, age, number of matches, and average runs as attributes.

Write a program that takes N cricketers in a structured array and displays the information in ascending order based on average runs scored by each person.

##### **Answer**

```
// You are using GCC
```

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

```
struct cricketer{
```

```

    char name[50];
    int age;
    int no_of_matches;
    float avg_runs;
};

int main(){
    struct cricketer c[30];
    int n;
    scanf("%d",&n);
    for(int i = 0; i < n; i++){
        scanf("%s %d %d %f", c[i].name, &c[i].age, &c[i].no_of_matches,
        &c[i].avg_runs);
    }

    for(int i = 0; i < n-1; i++){
        for(int j = 0; j < n-i-1; j++){
            if(c[j].avg_runs > c[j+1].avg_runs){
                struct cricketer temp = c[j];
                c[j] = c[j+1];
                c[j+1] = temp;
            }
        }
    }

    for(int i = 0; i < n; i++){
        printf("%s %d %d %.2f\n",c[i].name,c[i].age,c[i].no_of_matches,c[i].avg_runs);
    }
    return 0;
}

```

**Status :** Correct

**Marks :** 10/10