

**\*Structure And There Attribute\***

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**Topic:Structure 2.**

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<.....>

**1.Student.**

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

```
#include<string.h>
```

```
typedef struct student
```

```
{
```

```
    char name[50];
```

```
    char gender[50];
```

```
    float marks;
```

```
    int rollnum;
```

```
}student;
```

```
void store(student*,int);
```

```
void display(student*,int);
```

```
void main()
```

```
{
```

```
    int n,i;
```

```
    puts("Enter Numbers of Entry u want for Student:");
```

```
    scanf("%d",&n);
```

```
    student arr[n];
```

```

        store(arr,n);
        display(arr,n);

    }
void store(student* arr,int n)
{
    int i;
    puts(".....Hey Answer The Below Question.....");
    for(i=0;i<n;i++)
    {
        puts(".....");
        printf("Enter Name of The Student %d   :",i+1);
        scanf("%s",&arr[i].name);
        printf("Enter Roll Number of Student %d   :",i+1);
        scanf("%d",&arr[i].rollnum);

        printf("Enter Gender of Student %d   :",i+1);
        scanf("%s",&arr[i].gender);
        printf("Enter Marks of Student %d   :",i+1);
        scanf("%f",&arr[i].marks);
        fflush(stdin);
    }
}
void display(student* a,int n)
{
    puts("\n Hey ur Entered Details are");

```

```
int i;
for(i=0;i<n;i++)
{
puts("\n.....");
printf("\nStudent %d Name      :%s",i+1,a[i].name);
printf("\nStudent %d Roll number  :%d",i+1,a[i].rollnum);
printf("\nStudent %d Gender      :%s",i+1,a[i].gender);
printf("\nStudent %d Marks       :%.2f %%",i+1,a[i].marks);

}
```

```
Enter Numbers of Entry u want for Student:
3
.....Hey Answer The Below Question.....
.....
Enter Name of The Student 1      :Amar
Enter Roll Number of Student 1   :1
Enter Gender of Student 1        :Male
Enter Marks of Student 1         :80.22
.....
Enter Name of The Student 2      :Akbar
Enter Roll Number of Student 2   :2
Enter Gender of Student 2        :Male
Enter Marks of Student 2         :60.99
.....
Enter Name of The Student 3      :Anthony
Enter Roll Number of Student 3   :3
Enter Gender of Student 3        :Male
Enter Marks of Student 3         :92
```

```
Enter Name of The Student 3      :Anthony
Enter Roll Number of Student 3   :3
Enter Gender of Student 3        :Male
Enter Marks of Student 3         :92
```

Hey ur Entered Details are

```
.....
Student 1 Name      :Amar
Student 1 Roll number :1
Student 1 Gender    :Male
Student 1 Marks     :80.22 %
.....
```

```
Student 2 Name      :Akbar
Student 2 Roll number :2
Student 2 Gender    :Male
Student 2 Marks     :60.99 %
```

```
Student 2 Name      :Akbar
Student 2 Roll number :2
Student 2 Gender    :Male
Student 2 Marks     :60.99 %
.....
```

```
Student 3 Name      :Anthony
Student 3 Roll number :3
Student 3 Gender    :Male
Student 3 Marks     :92.00 %
.....
```

```
Process exited after 108.2 seconds with return value 3
Press any key to continue . . .
```

<.....>

## 2.Book.

```
#include<stdio.h>
#include<string.h>
typedef struct book
{
    char bname[50];
    char author[50];
    float price;
    float id;

}book;
void store(book*,int);
void display(book*,int);
void main()
{
    int n,i;
    puts("Enter Numbers of Entry u want for Books:");
    scanf("%d",&n);
    book arr[n];
    store(arr,n);
    display(arr,n);

}
void store(book* arr,int n)
{
    int i;
    puts(" .....Hey Answer The Below Question.....");
```

```

    for(i=0;i<n;i++)
    {
        puts(".....");
        printf("Enter Name of The Book %d      :",i+1);
        scanf("%s",&arr[i].bname);
        printf("Enter id Number of book %d      :",i+1);
        scanf("%f",&arr[i].id);
        fflush(stdin);
        printf("Enter Name of Author for book %d :",i+1);
        gets(arr[i].author);
        printf("Enter Price of book %d      :",i+1);
        scanf("%f",&arr[i].price);

    }
}

void display(book* a,int n)
{
    puts("\n Hey ur Entered Details are");
    int i;
    for(i=0;i<n;i++)
    {
        puts("\n.....");
        printf("\nBook %d Name      :%s",i+1,a[i].bname);
        printf("\nBook %d Id      :%.2f",i+1,a[i].id);
        printf("\nBook %d Author   :%s",i+1,a[i].author);
        printf("\nPrice Of Book %d :%.2f Only/-",i+1,a[i].price);

    }
}

```

```
Enter Numbers of Entry u want for Books:
2
.....Hey Answer The Below Question.....
.....
Enter Name of The Book 1      :Blackhole
Enter id Number of book 1     :1
Enter Name of Author for book 1 :James
Enter Price of book 1        :1299
.....
Enter Name of The Book 2      :Gravity
Enter id Number of book 2     :2
Enter Name of Author for book 2 :Richards
Enter Price of book 2        :1499
```

```
Hey ur Entered Details are
.....
Book 1 Name      :Blackhole
Book 1 Id       :1.00
Book 1 Author    :James
Price Of Book 1  :1299.00 Only/-
.....
Book 2 Name      :Gravity
Book 2 Id       :2.00
Book 2 Author    :Richards
Price Of Book 2  :1499.00 Only/-
-----
Process exited after 42.8 seconds with return value 2
Press any key to continue . . .
```

<.....>

### 3.Time.

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

```
#include<string.h>
```

```
typedef struct Time
```

```
{
```

```
    int hour,minute,second;
```

```
}Time;
```

```
void display(Time*,int);
```

```
void store(Time*,int);
```

```
void add(Time*,int);
```

```
void main()
```

```
{
```

```
    int n,r1,r2;
```

```
    puts("Enter number of Data u want to Enter for time:");
```

```
    scanf("%d",&n);
```

```
    Time a[n];
```

```
    store(a,n);
```

```
    display(a,n);
```

```
    add(a,n);
```

```
}
```

```
void store(Time* a,int n)
```

```
{
```

```
    //int i,th,tm,ts;
```

```
    int i;
```



```

        for(i=0;i<n;i++)
        {
            puts(".....");
            printf("Enter the Time%d Hour  :",i+1);
            scanf("%d",&a[i].hour);
            printf("Enter the Time%d Minute :",i+1);
            scanf("%d",&a[i].minute);
            printf("Enter the Time%d Second :",i+1);
            scanf("%d",&a[i].second);
        }
    }

    void display(Time * t,int n)
    {
        int i;
        puts(".....");
        printf("\nTime:Hours | Minutes | Seconds");

        for(i=0;i<n;i++)
        {

            printf("\n   %d |  %d |  %d ",i+1,t[i].hour,t[i].minute,t[i].second);

        }

    }

    void add(Time* t,int n)
    {
        int i1,i2;

```

```

int i ,hour=0,minute=0,second=0;
for(i=0;i<n;i++)
{
    hour = hour + t[i].hour;
    minute = minute + t[i].minute;
    second = second +t[i].second;
}
if (minute>=60)
{
    hour = hour + minute/60.;
    minute = minute%60;
}
if (second>=60)
{
    minute = minute + minute/60;
    second = second%60;
}
puts("\n.....");
printf("\nTotal Time:\nHours | Minutes | Seconds");

printf("\n %d    %d    %d ",hour,minute,second);

puts("\n.....");
i=0;
printf("\nAddition of Particular time");
puts("\nEnter any two Time Number u want to Add in Particular:");
scanf("%d%d",&i1,&i2);

```

```

int hr=t[i1-1].hour+t[i2-1].hour;
int min=t[i1-1].minute+t[i2-1].minute;
int sec=t[i1-1].second+t[i2-1].second;

    if(sec>59)
    {
        min=min+1;
        sec=sec-60;

    }
    if(min>59)
    {
        hr=hr+1;
        min=min-60;

    }

    printf("\nTotal of Particular Selected Time Number
    Entry:\nHours | Minutes | Seconds");
    printf("\n %d    %d    %d ",hr,min,sec);

}

```

```
Enter number of Data u want to Enter for time:
}
.....
Enter the Time1 Hour :1
Enter the Time1 Minute :2
Enter the Time1 Second :3
.....
Enter the Time2 Hour :4
Enter the Time2 Minute :5
Enter the Time2 Second :6
.....
Enter the Time3 Hour :7
Enter the Time3 Minute :8
Enter the Time3 Second :9
.....
```

```
.....
Time:Hours|Minutes|Seconds
1 | 1 | 2
2 | 4 | 5
3 | 7 | 8
.....
Total Time:
Hours |Minutes |Seconds
12 | 15 | 18
.....
```

```
Addition of Particular time
Enter any two Time Number u want to Add in Particular:
1
3

Total of Particular Selected Time Number Entry:
Hours|Minutes|Seconds
8 | 10 | 12
-----
Process exited after 13.07 seconds with return value 23
Press any key to continue . . .
```

<.....>

#### 4.Player.

```
#include<stdio.h>
#include<string.h>
typedef struct player
{
    char name[50];
    //char num[50];
    int num;
    int runs;
    int wickets;

}player;
void store(player*,int);
void display(player*,int);
void maxrun_wicket(player*,int);

void main()
{
    int n,i;

    puts("Enter Numbers of Entry u want for Players:");
    scanf("%d",&n);
    player arr[n];
    store(arr,n);
    display(arr,n);
    maxrun_wicket(arr,n);
```

```

}
void store(player* arr,int n)
{
    int i;
    puts(".....Hey Answer The Below Question.....");
    for(i=0;i<n;i++)
    {
        puts(".....");
        printf("Enter Name of The Player %d      :",i+1);
        scanf("%s",&arr[i].name);
        printf("Enter Jersey Number of player%d      :",i+1);
        scanf("%d",&arr[i].num);

        printf("Enter Runs By Player %d      :",i+1);
        scanf("%d",&arr[i].runs);
        printf("Enter Wickets By player %d      :",i+1);
        scanf("%d",&arr[i].wickets);
        //fflush(stdin);
    }
}

void display(player* a,int n)
{
    puts("\n Hey ur Entered Details are");

    int i;
    for(i=0;i<n;i++)
    {

```

```

        puts("\n.....");
        printf("\nPlayer %d Name      :%s",i+1,a[i].name);
        printf("\nPlayer %d Jersey Number  :%d",i+1,a[i].num);
        printf("\nPlayer %d Runs      :%d",i+1,a[i].runs);
        printf("\nPlayer %d Wickets     :%d",i+1,a[i].wickets);

    }
}

void maxrun_wicket(player* a,int n)
{
    int i,maxrun,maxwicket;
    maxrun=a[0].runs;
    maxwicket=a[0].wickets;
    for(i=0;i<n;i++)
    {
        if(a[i].runs>maxrun)
        {
            maxrun=a[i].runs;
        }
    }
    for(i=0;i<n;i++)
    {
        if(maxrun==a[i].runs)
        {
            puts("\n.....");
            puts("\n.....Most run By Player is Mentioned Below:.....");

            printf("\nPlayer %d Name      :%s",i+1,a[i].name);

```

```

        printf("\nPlayer %d Jersey Number   :%d",i+1,a[i].num);
        printf("\nPlayer %d Runs           :%d",i+1,a[i].runs);
        printf("\nPlayer %d Wickets       :%d",i+1,a[i].wickets);
    }
}

for(i=0;i<n;i++)
{
    if(a[i].wickets>maxwicket)
    {
        maxwicket=a[i].wickets;
    }
}

for(i=0;i<n;i++)
{
    if(maxwicket==a[i].wickets)
    {
        puts("\n.....");
        puts("\n.....Most Wicket By Player is Mentioned Below:.....");

        printf("\nPlayer %d Name           :%s",i+1,a[i].name);
        printf("\nPlayer %d Jersey Number   :%d",i+1,a[i].num);
        printf("\nPlayer %d Runs           :%d",i+1,a[i].runs);
        printf("\nPlayer %d Wickets       :%d",i+1,a[i].wickets);
    }
}

}

```



```

Enter Numbers of Entry u want for Players:
10
.....Hey Answer The Below Question.....
.....
Enter Name of The Player 1      :Virat
Enter Jersey Number of player1  :18
Enter Runs By Player 1         :6000
Enter Wickets By player 1      :8
.....
Enter Name of The Player 2      :Sachin
Enter Jersey Number of player2  :10
Enter Runs By Player 2         :6500
Enter Wickets By player 2      :10
.....
Enter Name of The Player 3      :Dhoni
Enter Jersey Number of player3  :7
Enter Runs By Player 3         :4153
Enter Wickets By player 3      :9
.....

```

```

.....
Enter Name of The Player 4      :Suryakumar
Enter Jersey Number of player4  :53
Enter Runs By Player 4         :2959
Enter Wickets By player 4      :1
.....
Enter Name of The Player 5      :Subhman
Enter Jersey Number of player5  :77
Enter Runs By Player 5         :3125
Enter Wickets By player 5      :2
.....
Enter Name of The Player 6      :Bumrah
Enter Jersey Number of player6  :93
Enter Runs By Player 6         :200
Enter Wickets By player 6      :56
.....

```

```

.....
Enter Name of The Player 7      :Ashwin
Enter Jersey Number of player7  :99
Enter Runs By Player 7         :112
Enter Wickets By player 7      :103
.....
Enter Name of The Player 8      :Hardik
Enter Jersey Number of player8  :33
Enter Runs By Player 8         :2599
Enter Wickets By player 8      :40
.....

```

```

.....
Player 9 Name      :Siraj
Player 9 Jersey Number :53
Player 9 Runs      :150
Player 9 Wickets    :43
.....
Player 10 Name     :Yuvraj
Player 10 Jersey Number :12
Player 10 Runs     :3598
Player 10 Wickets   :23
.....

```

```

.....
.....Most run By Player is Mentioned Below:.....
Player 2 Name      :Sachin
Player 2 Jersey Number :10
Player 2 Runs      :6500
Player 2 Wickets    :10
.....
.....Most Wicket By Player is Mentioned Below:.....

```

```

Player 7 Name      :Ashwin
Player 7 Jersey Number :99
Player 7 Runs      :112
Player 7 Wickets    :103
-----
Process exited after 312.7 seconds with return value 10
Press any key to continue . . .

```