## **Structure**

**<u>Structure:-</u>** It is a collection of different-different data type is called a structures.

### **Syntax:-**

```
struct structure-name;
{
  data-type member-name_1;
  data-type member-name_2;
  ....
  data-type member-name_n;
} structure_name object;
```

# **Example 1:-**Write a program for structure book.

## **Solution:-**

```
char author[20];
          float prize;
          int pages;
     };
struct Book b;
     printf("Please put book name ");
     scanf("%s",&b.bname);
     printf("Please put Author name ");
     scanf("%s",&b.author);
     printf("Please put Prize ");
     scanf("%f",&b.prize);
     printf("Please put Pages ");
     scanf("%i",&b.pages);
     printf("\n");
     printf("\a ********** \a\n");
     printf("Book name is%s ",b.bname);
     printf("\nBook author name is %s ",b.author);
     printf("\nBook prize is %f ",b.prize);
     printf("\nBook pages is %i ",b.pages);
  return 0;
}
```

#### **Output:-**

### **Example 2:-**Write a program to 2 book structure.

#### Solution:-

```
#include<stdio.h>
int main()
{
    struct Book
    {
        char bname[20];
        char author[20];
```

```
float prize;
          int pages;
     };
struct Book b;
for(int i=0;i<5;i++)
{
     printf("Please put book name ");
     scanf("%s",&b.bname);
printf("Please put Author name ");
     scanf("%s",&b.author);
     printf("Please put Prize ");
     scanf("%f",&b.prize);
     printf("Please put Pages ");
     scanf("%i",&b.pages);
     printf("\n");
     printf("\a ********* \a\n"):
     printf("Book name is%s ",b.bname);
  printf("\nBook author name is %s ",b.author);
  printf("\nBook name is %f ",b.prize);
  printf("\nBook name %i ",b.pages);
 printf("\n");
printf("\a############################\a\n");
```

```
}
return 0;
}
```

#### Output:-

```
Please put book name c++
Please put Author name Abhinav Jain
Please put Prize 425.0
Please put Pages 567
******
Book name is c++
Book author name is Abhivav Jain
Book prize is 425.0000
Book pages is 567
Please put book name c++
Please put Author name Abhinav Jain
Please put Prize 425.0
Please put Pages 567
******
Book name is c++
Book author name is Abhivav Jain
Book prize is 425.0000
Book pages is 567
```