

Annex : c program to create a list of three cars, and display them according to their year.

```
#include<stdio.h>

void main (){
    typedef struct car {
        int id;
        char model[20];
        char brand[20];
        enum color {red, blue,green} c;
        int year;
    } car ;

    char listOfColor[3][20]={"Red","Blue","Green"};

    int n=3;
    car listCar[n];

    for (int i=0;i<n; i++)
    {
        listCar[i].id=i+1;
        printf("enter the model: ");
        scanf("%s",listCar[i].model);
        printf("enter the brand: ");
        scanf("%s",listCar[i].brand);
        printf("enter the c: ");
        scanf("%d",&listCar[i].c);
        printf("enter the year: ");
        scanf("%d",&listCar[i].year);
    }

    car temp;
    for (int i=0; i<n-1;i++)
    {
        for (int j=0; j<n-i-1;j++)
        {
            if(listCar[j].year>listCar[j+1].year)
            {
                temp=listCar[j];
                listCar[j]=listCar[j+1];
                listCar[j+1]=temp;
            }
        }
    }
}
```

```
for (int i=0; i<n;i++)
{
printf("car id %d is %s %s with a %s color, year =%d\n",
listCar[i].id,
listCar[i].model,
listCar[i].brand,
listOfColor[listCar[i].c]
,listCar[i].year);
}
}
```