# Car rental system project

# Libraries

**<** **<bits/stdc++.h>**

it is basically a header file that includes every standard library

# < conio.h >

This header declares several useful library functions for performing "istream input and output" from a program

**<** **unistd.h >**

header defines miscellaneous symbolic constants and types ,and declares miscellaneous functions. The contents of this header are shown below.

**<** **iomanip >**

library that is used to manipulate the output of C++ program. Using C++, header providing parametric manipulators as shown below

# Classes

**1-** **Class car:**

* **Input the data of the car with 6 arrays with size 10**

1. Name with data type string (string mark [10])
2. Model of the car with data type string (string model2 [10])
3. Color of the car with data type string (string color2 [10])
4. Max speed of the car with data type string (string max\_speed2 [10])
5. Year of producing the car with data type int (int date2 [10])
6. Price of the car with data type int (int price [10])

* **Public:**

We will add a function (void read\_car\_data();) in the public to read the data of the car whenever we need it in the program .

* **Then we will open files a file to each one of the13 cars to insert the data of the car in it .**
* **Then we will start to make functions:**

1. Get function

to get data of each car in the private

1. Friend function

to show the data of the cars from the private

1. Show data of cars function

It will contain some getters.

**2-** **Class customer:**

* **Input the data of the customer**

1. Name of the customer with data type string (string name)
2. Address of the customer with data type string (string address)
3. Phone number of the customer with data type string (string phone)
4. Id of the customer with data type string (string id)
5. License of the customer with data type string (string license)

* **Public:**

**We will make functions**

1. set function

to set the data of the customer

1. get function

to get the data of the customer

1. license function

it will have the data of the customer in it.

1. friend void show data function

it will show the data of the customer from the private to put it in the license function.

**3-** **Class rent:**

* **Input some data that will be taken from the customer**

1. No. of days that the customer will rent the car with data type int (int days)
2. Price of the car with data type double (double price2)
3. The total cost of the car renting with data type double (double rent\_fee)
4. Name of the customer with data type string (string name)
5. Address of the customer with data type string (string address)
6. Phone number of the customer with data type string (string phone)
7. Id of the customer with data type string (string id)
8. License of the customer with data type string (string license)
9. The choice that the customer will choose with data type string (string m)

* **Public:**

1- We will add function data to cout the choices of the cars for the customer

2- We will use some if conditions to give the customer the data of the car he chose to rent

3- We cout to the user to enter the no of days that he wants to rent the car for

**Then we will make some functions:**

1. **Calc function**

This function will calculate the rent of the car (price\*day)

1. **Crust info function**

We will put the data that will show up to the customer when he logs in in it

1. **Rent function**

We will put the data that will show up to the customer after ending the renting operation

Double renting feature:

**double operator to take the data of two cars instead of only one**

**3-** **Class welcome:**

* **We will make a file in it and add a welcome text that will face the user when he first open the program**
* **Cout<< “starting the program”> >**
* **Cout <<” loading up files” >>**

**……………………………**

**Function run**

It will contain

* Lessee
* Car c
* Show data car (c)
* rent r,r2
* r.all()
* r2.all()
* r2.operator+(r)

**Log in**

* We will input the password in it with an operator of datatype string
* Input a character with data type ch

**The user will face**

( car rental system )

(Log in)

(Enter Password)

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