CODE

```cpp
#include <bits/stdc++.h>
#include <conio.h>
#include <unistd.h>
#include <iomanip>
using namespace std;
class car{
  string car_mark [10] = {"Hyundai", "BMW", "Mercedes", "Audi", "Tesla", "Skoda", "Kia", "Toyota", "Ford"};
  string model [10]  = {"2019MD","22AS","2021DS","2018LA","209MW","2015Ps","2018PW","2017QW","2022SA"};
  string color [10]  ={"Red","black","yellow","Blue","Red","Brown","Silver","Black","grey"};
  string maxs_peed [10] ={"190 Km/h ","180 Km/h","220 Km/h","200 Km/h","230 Km/h","160 Km/h","180 Km/h","140 Km/h","200 Km/h"};
  int price [ 10 ] ={100,200,300,500,200,250,400,600,900} ;
  int date [10]={2019,2022,2021,2017,2018,2021,2020,2015,2022};
public:
  void car_data() {
//      int i = 0;
    fstream h[10];
    for (int i = 0; i < 10; i++) {
      h[i].open("Hyundai.txt", ios::out);
      if (!h[i].is_open()) {
        cout << "File not created!";
      } else {
        h[i] << "\t\t\tName : " << car_mark[i] << endl;
        h[i] << "\t\t\tColor : " << color[i] << endl;
        h[i] << "\t\t\tModel : " << model[i] << endl;
        h[i] << "\t\t\tDate : " << date[i] << endl;
        h[i] << "\t\t\tMaximum Speed : " << maxs_peed[i] << endl;
        h[i] << "\t\t\tPrice : " << price[i] << "k" << endl;

        h[i].close();
      }
    }

  }
    string get_name(int n) {
      return car_mark[n - 1];
    }
    string get_color(int n) {
      return color[n - 1];
    }
    string get_model(int n) {
      return model[n - 1];
    }
    string get_max_speed(int n) {
      return maxs_peed[n - 1];
    }
    int get_price(int n) {
      return price[n - 1];
    }
    int get_date(int n) {
      return date[n - 1];
    }
 void show_data_car(car);
};

void car::show_data_car(car data){
  cout<<"-------------------------------------------------------------------------\n";
  cout<<"   Car name : " <<" "<<"Car model :  "<<" "<<" Car color : "<<" "<<" car max speed "<<" "<<" price "<<" :"<<endl;
  for(int i=0;i<9;i++){

    cout<<"\t   "<<(i+1)<<"-"<<data.get_name(i+1)
    <<"   "
    <<data.get_model(i+1)
    <<"   "
    <<data.get_color(i+1)
    <<"   "
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        <<data.get_max_speed(i+1)
        <<"   "<<
        data.get_date(i+1)
        <<data.get_price(i+1)<<"k"<<endl;
    }
}
class lessee {
    string name;
    string address;
    string phone;
    string id;
    string license;

public:

    void set_name(string n) {
     name=n;
    }

    void set_address(string a) {
      address=a;
    }

    void set_phone(string p) {
      phone=p;
    }

    void set_id(string i) {
      id=i;
    }

    void set_license(string c) {
      license =c;
    }
    string get_Cname(){
      return name;
    }
    string get_Caddress(){
      return address;
    }
    string get_Cphone(){
      return phone;
    }
    string get_Cid(){
      return id;
    }
    string get_Clicense(){
      return license;
    }
    friend void show_license_data(lessee);
    friend void info();
};
void show_license_data(lessee l){
    cout<<l.get_Cname()<<endl;
    cout<<l.get_Caddress()<<endl;
    cout<<l.get_Cphone()<<endl;
    cout<<l.get_Caddress()<<endl;
    cout<<l.get_Clicense()<<endl;
}
class rent:public car,public lessee{
private:
    int days{};
    double price2=0;
    double rent_fee=0;
    string name,address,phone,id,license;

    string m;
public:
    void data(){
        do {
```

```cpp
cout << "\t\t\t\tPlease Select a Car" << endl;
cout << "\t\t\t\tEnter '1' for Tesla    2011." << endl;
cout << "\t\t\t\tEnter '2' for Hyundai  2015." << endl;
cout << "\t\t\t\tEnter '3' for Ford     2017." << endl;
cout << "\t\t\t\tEnter '4' for Kia      2018." << endl;
cout << "\t\t\t\tEnter '5' for BMW      2019." << endl;
cout << "\t\t\t\tEnter '6' for Mercedes 2012." << endl;
cout << "\t\t\t\tEnter '7' for TOYOTA   2013." << endl;
cout << "\t\t\t\tEnter '8' for FIAT     2016." << endl;
cout << "\t\t\t\tEnter '9' for SUZUKI   2020." << endl;
cout << "\t\t\t\tEnter '10' for SKODA   2014." << endl;
cout << endl;
cout << "\t\t\t\tChoose one of the Cars from these above options: ";
cin >> m;
cout << endl;
cout << "--------------------------------------------------------------------------" << endl;
if (m == "1") {
   cout << "You have  chose Tesla model 2011" << endl;
   ifstream inA("A.txt");
   char line[100];
   while (inA) {
     inA.getline(line, 100);
     if (inA) cout << line << endl;
   }

}
if (m == "2") {
   cout << "You have chose Hyundai model 2015" << endl;
   ifstream inB("B.txt");
   char line[100];
   while (inB) {
     inB.getline(line, 100);
     if (inB) cout << line << endl;
   }
}
if (m == "3") {
   cout << "You have chose Ford model 2017" << endl;
   ifstream inC("C.txt");
   char line[100];
   while (inC) {
     inC.getline(line, 100);
     if (inC) cout << line << endl;
   }
}
if (m == "4") {

   cout << "You have chose kia model 2018" << endl;
   ifstream inD("D.txt");
   char line[100];
   while (inD) {
     inD.getline(line, 100);
     if (inD) cout << line << endl;
   }
}
if (m== "5") {
   cout << "You have chose BMW model 2019" << endl;
   ifstream inE("E.txt");
   char line[100];
}
if (m == "6") {

   cout << "You have chose Mercedes model 2012" << endl;
   ifstream inF("F.txt");
   char line[100];
   while (inF) {
     inF.getline(line, 100);
     if (inF) cout << line << endl;
   }

}
```

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        if (m == "7") {
            cout << "You have chose TOYOTA model 2013" << endl;
            ifstream inG("G.txt");
            char line[100];
            while (inG) {
                inG.getline(line, 100);
                if (inG) cout << line << endl;
            }
        }
        if (m == "8") {

            cout << "You have chose FIAT model 2016" << endl;
            ifstream inH("H.txt");
            char line[100];
            while (inH) {
                inH.getline(line, 100);
                if (inH) cout << line << endl;
            }

        }
        if (m == "9") {
            cout << "You have chose  SUZUKI model 2020" << endl;
            ifstream inI("I.txt");
            char line[100];
            while (inI) {
                inI.getline(line, 100);
                if (inI) cout << line << endl;
            }

        }
        if (m == "10") {

            cout << "You have chose SKODA model 2014" << endl;
            ifstream inJ("J.txt");
            char line[100];
            while (inJ) {
                inJ.getline(line, 100);
                if (inJ) cout << line << endl;
            }

        }
        if (m != "1"&& m != "2" && m != "3" && m != "4"&& m != "5" && m != "6" &&
            m != "7"&& m != "8" && m != "9" && m!= "10") {
            cout << "In valid Car Model and Please try again!" << endl;
        }
    } while (m != "1"&& m != "2" && m != "3" && m != "4"&& m != "5" && m != "6" &&
            m != "7"&& m != "8" && m != "9" && m!= "10");
    cout << "-------------------------------------------------------------------------" << endl;
    cout << "Please see following information: " << endl;
    cout << "Number of days you wish to rent the car : ";
    cin >> days;
    cout << endl;
}
    void calc(){
    cout << "Calculating rent. Please wait......" << endl;
    if (m == "1")
        price2 = days * get_price(1);
    if (m == "2")
        price2 = days *get_price(2);
    if (m == "3")
        price2 = days * get_price(3);
    if (m == "4")
        price2 = days * get_price(4);
    if (m == "5")
        price2 = days * get_price(5);
    if (m == "6")
        price2 = days * get_price(6);
    if (m == "7")
        price2 = days * get_price(7);
    if (m == "8")
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```cpp
        price2 = days * get_price(8);
      if (m == "9")
        price2 = days * get_price(9);
      if (m == "10")
        price2 = days * get_price(10);
      if (rent_fee != 0) {
        price2 += rent_fee;
      }
    }
  void cusrt_info(){
    cout << "\t\t\t\tPlease enter your name"<<endl;
    cin>>name;
    set_name(name);
    cout << "\t\t\t\tPlease enter your address"<<endl;
    cin>>address;
    set_address(address);
    cout << "\t\t\t\tPlease enter your phone"<<endl;
    cin>>phone;
    set_phone(phone);
    cout << "\t\t\t\tPlease enter your id"<<endl;
    cin>>id;
    set_id(id);
    cout << "\t\t\t\tPlease enter your license"<<endl;
    cin>>license;
    set_license(license);
    cout << endl;
  }

  void rent_info(){
    int x= stoi(m);
      cout << "\n\t\t            your information            "<<endl;
    cout << "\t\t  /////////////////////////////////////////////////////"<<endl;
    cout << "\t\t  | Customer Name:"<<"-----------------|"<<setw(10)<<name<<" |"<<endl;
    cout << "\t\t  | Car Model :"<<"--------------------|"<<setw(10)<<get_model(x)<<" |"<<endl;
    cout << "\t\t  | Car No. :"<<"----------------------|"<<setw(10)<<get_date(x)<<" |"<<endl;
    cout << "\t\t  | Number of days :"<<"---------------|"<<setw(10)<<days<<" |"<<endl;
    cout << "\t\t  | Your Rental Amount is :"<<"--------|"<<setw(10)<<price2<<" |"<<endl;
    cout << "\t\t  _____"<<endl;
  }
  void all(){
    cusrt_info();
    data();
    calc();
    rent_info();
  }
double operator+(rent r){
    int p=price2+r.price2;
    cout<<"the totel of the two customer spend: "<<p<<endl;
  }
};
class welcome{
public:
  welcome(){
    ifstream in("welcome.txt");
    if(!in) {
      cout << "Cannot open input file.\n";
    }
    char str[1000];
    while(in) {
      in.getline(str, 1000);
      if(in) cout << str << endl;
    }
    in.close();
    sleep(1);
    cout<<"\nStarting the program please wait....."<<endl;
    sleep(1);
    cout<<"\nloading up files....."<<endl;
    sleep(1);
    system ("CLS");
  }
```

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};
void run() {
    lessee l;
    car c;
   c.show_data_car(c);
    rent r,r2;
    r.all();
    r2.all();
    r2.operator+(r);
}
int log_in(){
    string pass ="";
    char ch;
    cout<<"\n\n\n\n\n\n\n\t\t\t\t      CAR RENTAL SYSTEM \n\n";
    cout<<"\t\t\t\t\t------------------------------";
    cout<<"\n\t\t\t\t\t    LOGIN \n";
    cout<<"\t\t\t\t\t------------------------------\n\n";
    cout << "\t\t\t\t\tEnter Password: ";
    ch = _getch();
    while(ch != 13){//character 13 is enter
        pass.push_back(ch);
        cout << '*';
        ch = _getch();
    }
    if(pass == "pass"){
        cout << "\n\n\n\t\t\t\t\tAccess Granted! \n";
        system("PAUSE");
        system ("CLS");
    }else{
        cout << "\n\n\t\t\t\t\t\tAccess Aborted...\n\t\t\t\t\t\tPlease Try Again\n\n";
        system("PAUSE");
        system("CLS");
        log_in();
    }
}

int main(){
    welcome w;
 log_in();
    run();

    return 0;
}
```