Car

#include "car.h"

Car::Car() : brand(), model(), price()

{

//cout << "Default Car\n";

}

Car::Car(const string& brnd, const string& mdl, const double& prc) : brand(brnd), model(mdl), price(prc)

{

//cout << "Parameters Car\n";

}

Car::Car(const Car& C) : brand(C.brand), model(C.model), price(C.price)

{

//cout << "Copy Car\n";

}

Car::~Car()

{

//cout << "Destroy Car\n"<< brand <<"\n";

}

string Car::getBrand() const

{

return this->brand;

}

string Car::getModel() const

{

return this->model;

}

double Car::getPrice() const

{

return this->price;

}

void Car::printInfo() const

{

cout << "Car info: ";

cout << brand << " " << model << " " << price << " \n";

}

string& Car::getBrand()

{

return brand;

}

string& Car::getModel()

{

return model;

}

double& Car::getPrice()

{

return price;

}

void Car::setBrand(const string& brandValue)

{

brand = brandValue;

}

void Car::setModel(const string& modelValue)

{

model = modelValue;

}

void Car::setPrice(const double& priceValue)

{

if (priceValue <= 0)

{

cout << "Error! Price " << priceValue << " cannot be\n";

return;

}

price = priceValue;

}

istream& operator>>(istream& in, Car& C)

{

in >> C.getBrand() >> C.getModel() >> C.getPrice();

return in;

}

ostream& operator<<(ostream& out, const Car& C)

{

out << "\nYour brand: " << C.getBrand() << "\nYour model: " << C.getModel() << "\nYour price: " << C.getPrice();

return out;

}

Main

#include<iostream>

#include "car.h"

using namespace std;

int main()

{

Car C1;

Car C2("Ford", "Ranger", 39000);

Car C3(C2);

cout << "\n";

cout << "Car info\n";

cout << C2.getBrand()<<" "<<C2.getModel()<<" " <<C2.getPrice()<<" "<<"\n";

C1.printInfo();

C3.printInfo();

cout << "\nVia getters\n";

C1.getBrand() = "Nissan";

C1.getModel() = "Navara";

C1.getPrice() = 33000;

C1.printInfo();

cout << "\n";

C3.setBrand("Kia");

C3.setModel("Sonet");

C3.setPrice(51000);

C3.printInfo();

double p;

cout << "\nPlease, enter new price: ";

cin >> p;

C3.setPrice(p);

C3.printInfo();

Car C4;

cout << "\nPlease, enter car info:\n";

cin >> C4;

cout << "Here is your car\n" << C4 << "\n";

cout << "\n";

return 0;

}

H

#pragma once

#include <iostream>

#include <string>

using namespace std;

class Car

{

private:

string brand;

string model;

double price;

public:

Car();

Car(const string& brnd, const string& mdl, const double& prc);

Car(const Car& C);

~Car();

string getBrand() const;

string getModel() const;

double getPrice() const;

void printInfo() const;

string& getBrand();

string& getModel();

double& getPrice();

void setBrand(const string& brandValue);

void setModel(const string& modelValue);

void setPrice(const double& priceValue);

void readFrom(istream& in);

void writeTo(ostream& out);

};

istream& operator>>(istream& in, Car& C);

ostream& operator<<(ostream& out, const Car& C);