Mehran University of Engineering and Technology

CAR COMPARISON SYSTEMS

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Certificate of Approval

The undersigned certify that they have read and recommended to the Department of Computer System for acceptance, a project report entitled "CAR COMPARISON SYSTEM" submitted by:

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in partial fulfillment of the requirement for the Project of second semester of Bachelor of Computer System.

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CAR COMPARISON SYSTEM 2021

ABSTRACTS

This project deals with the comparison among cars. It helps the user to select the best car of their requirement according to their criteria.

The information is feed up on the source code which allows user to determine the comparison between two cars of their criteria. This program is implemented in C++. The source code is easy and simple through which the comparison between car is easily determined. The case study discusses the use of simpler codes to build the abstraction.

In addition, this report will also discuss the strategies to concise the large set of data in few numbers of lines.

The users can interact with the program by giving input of the car of their choice and after execution the output gives comparison.

INTRODUCTION
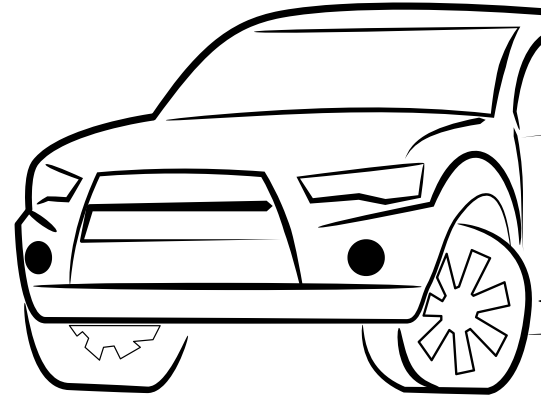
Car Comparison Systems

The project "The Car comparison system" is a system which facilitates customers in the car showroom to choose the best car of their requirements. The features of cars is feed up in the source code, so in the showroom where a lot of choices are there for the customers so to clear the confusion of customer this program allows the customer to differentiate between the favorite car and let them to make the right decision before purchase.

BACKGROUND HISTORY

The car comparison system is a digital assistant with a mission to financially support the local , independent showrooms.

The showrooms is a place of love and a dream for some people for whom the car is not just the vehicle, those people considers car as an emotion of fondness and a passion for them. Now people uses and buy cars not just for their needs but also for the luxury life, for giftings, for business purpose and also for their passions.

If we compare today with the previous years so we have found great changes on our roads. Now the roads are covered with different cars. We can easily see the competition between the people for cars.

The more the people buys the car the more the showrooms are constructed. The showroom is a small store but having number of variety of different companies cars in different prize ranges.

It binds various companies together, these showrooms creates contention between the companies to design and launched the better car which fulfills customer requirements and their families basic needs.

Discontinuation

64% of new and used car buyers compare different vehicle models online as part of the vehicle shopping process, according to a 2016 IHS car buyer study. In order to compete in today's market, including a vehicle comparison tool on your website is critical. This functionality does not need to be complicated or costly.

Car comparison system® Compare provides an easy way for shoppers to compare across various makes and models as well as trims within the same model. Our normalized vehicle data takes away the confusion of comparing features with unique OEM marketing names but the same or similar functionality.

Compare, though available as stand-alone product, is most powerful when combined with the other API Suite modules. For shoppers unsure of which vehicles to compare, the car comparison system recommends the top matches for comparison.

FEATURES

Some features of this programs are listed below:

- **Compares cars:**

  this program compares car with the different features like company, top speed, seats, body shape, engine capacity which helps the users to distinguish between two cars.

- **Complete feature of the car:**

  this program also show information of features of the car that a car having which features and what is the efficiency of the car.

- **Easily understandable:**

  the program have the basics of C++ which can easily understandable by any showroom IT manager to implement it in their showrooms.

COMPONENTS OF C++

We have used the basics of C++, with only two components we have feed up the information and features of 19 cars under five different categories regarding engine capacity:

- Structures:
  earlier we used objects and classes to feed the information of cars but it took almost 500+ lines and getting difficult to understand. But after applying structures it concise from 500 lines to 150 lines.

- Switch statements:
  switch statements is used to show the particular information of the car according to the given input by the user.

OBJECTIVES

As we have seen there are volunteers who used to assist customers. They used to tell each and everything regarding cars to customers. But verbally it is difficult to understand the differences between the cars and to choose the best cars which fulfils their requirements. To avoid these confusions this program helps the customers to compare two cars of their needs, we can also say that it is a digital assistant which helps the customer to make a better decision.

SOURCE CODE

```cpp
#include <iostream>
#include <conio.h>
using namespae std;

struct car{

    string name;
        string company;
        string body_type;
        string engine_capacity;
        string top_speed;
        string fuel_avg;
        int seats;
        string transmission;
        };

int main()
{
//1800 cc

car car01 = {"Civic X", "Honda", "Sedan", "1800 CC", "210 km/h", "12 km/1", 5, "Automatic"};
        car car02 = {"Corolla Altis Grande", "Toyota", "Sedan", "1800 CC", "200 km/h", "13 km/l", 5, "Automatic"};

// 1500 cc
        car car03 = {"Vezel", "Honda", "Crossover", "1500 CC", "190 km/h", "15 km/l", 5, "Automatic"};
        car car04 = {"BRV", "Honda", "Crossover", "1500 CC", "160 km/h", "13 km/l", 7, "Manual"};
        car car05 = {"HS", "MG", "Crossover", "1500 CC", "200 km/h", "11 km/l", 5, "Automatic"};
        car car06 = {"ZS", "MG", "Crossover", "1500 CC", "150 km/h", "14 km/l", 5, "Automatic"};
        car car07 = {"Glory 580 Pro", "DFSK", "Crossover", "1500 CC", "220 km/h", "12 km/l", 5, "Automatic"};
        car car08 = {"X-70", "Proton", "Crossover", "1500 CC", "200 km/h", "12 km/l", 5, "Automatic"};
```

```cpp
//1300 cc
        car car09 = {"Yaris", "Toyota", "Sedan", "1300 CC", "205 km/h", "16 km/l", 5, "Manual"};
        car car10 = {"City", "Honda", "Sedan", "1300 CC", "195 km/h", "17 km/l", 5, "Manual"};
        car car11 = {"Saga", "Proton", "Sedan", "1300 CC", "170 km/h", "15 km/l", 5, "Manual"};
        car car12 = {"Swift", "Suzuki", "Hatchback", "1300 CC", "200 km/h", "11 km/l", 5,
"Manual"};

//1000 cc
        car car13 = {"Cultus", "Suzuki", "Hatchback", "1000 CC", "160 km/h", "18 km/l", 4,
"Manual"};
        car car14 = {"Vitz", "Toyota", "Hatchback", "1000 CC", "180 km/h", "16 km/l", 4,
"Automatic"};
        car car15 = {"Picanto", "KIA", "Hatchback", "1000 CC", "190 km/h", "12 km/l", 4,
"Manual"};
        car car16 = {"Wagon R", "Suzuki", "Hatchback", "1000 CC", "150 km/h", "16 km/l", 4,
"Manual"};

//660 cc
        car car17 = {"Alto", "Suzuki", "Hatchback", "660 CC", "140 km/h", "19 km/l", 4,
"Manual"};
        car car18 = {"Mira", "Daihatsu", "Hatchback", "660 CC", "130 km/h", "20 km/l", 4,
"Automatic"};
        car car19 = {"Dayz", "Nissan", "Hatchback", "660 CC", "130 km/h", "22 km/l", 4,
"Automatic"};

int selector1,selector2;
cout<<"WELCOME TO HC SHOWROOM!!"<<endl;
cout<<"don't just dream, let's drive.";
cout<< "\t :: SELECT ANY 2 CARS ::" << endl;
cout<< "\n" << "1 = Civic"<< "\n" << "2 = Corolla Altis Grande" << "\n" << "3 = Vezel" << "\n" <<
"4 = BRV" << "\n" << "5 = HS" << "\n" << "6 = ZS" << "\n" << "7 = Glory 580 pro" << "\n" << "8 =
X-70" << "\n" << "9 = Yaris" << "\n" << "10 = City" << "\n" << "11 = Saga" << "\n" << "12 = Swift"
<< "\n" << "13 = Cultus" << "\n" << "14 = Vitz" << "\n" << "15 = Piacnto" << "\n" << "16 = Wagon-
R" << "\n" << "17 = Alto"<< "\n" << "18 = Mira" << "\n" << "19 = Dayz" << endl ;
cout<< "\n";
cout<< "Select First Car: ";
cin >> selector1;
cout<< "Select Second Car: ";
cin >> selector2;
cout<< "\n";
cout<< "\t :::1st Car:::" << endl;
cout<< "\n";
```

```cpp
switch (selector1)
    { case 1:
            cout << "Name : " << car01.name << "\n" <<"Company : "<< car01.company <<
"\n" << "Body Type : " << car01.body_type << "\n" << "Engine Capacity : " <<
car01.engine_capacity << "\n" << "Top Speed : " << car01.top_speed << "\n" << "Fuel Average
: " << car01.fuel_avg << "\n" << "No of seats : " << car01.seats << "\n" << "Transmission type : "
<< car01.transmission << endl;
            break;
    case 2:
            cout << "Name : " << car02.name << "\n" <<"Company : "<< car02.company <<
"\n" << "Body Type : " << car02.body_type << "\n" << "Engine Capacity : " <<
car02.engine_capacity << "\n" << "Top Speed : " << car02.top_speed << "\n" << "Fuel
Average : " << car02.fuel_avg << "\n" << "No of seats : " << car02.seats << "\n" <<
"Transmission type : " << car02.transmission << endl;
            break;
    case 3:
            cout << "Name : " << car03.name << "\n" <<"Company : "<< car03.company <<
"\n" << "Body Type : " << car03.body_type << "\n" << "Engine Capacity : " <<
car03.engine_capacity << "\n" << "Top Speed : " << car03.top_speed << "\n" << "Fuel
Average : " << car03.fuel_avg << "\n" << "No of seats : " << car03.seats << "\n" <<
"Transmission type : " << car03.transmission << endl;
            break;
    case 4:
            cout << "Name : " << car04.name << "\n" <<"Company : "<< car04.company <<
"\n" << "Body Type : " << car04.body_type << "\n" << "Engine Capacity : " <<
car04.engine_capacity << "\n" << "Top Speed : " << car04.top_speed << "\n" << "Fuel
Average : " << car04.fuel_avg << "\n" << "No of seats : " << car04.seats << "\n" <<
"Transmission type : " << car04.transmission << endl;
            break;
    case 5:
cout << "Name : " << car05.name << "\n" <<"Company : "<< car05.company << "\n" << "Body
Type : " << car05.body_type << "\n" << "Engine Capacity : " << car05.engine_capacity << "\n"
<< "Top Speed : " << car05.top_speed << "\n" << "Fuel Average : " << car05.fuel_avg << "\n"
<< "No of seats : " << car05.seats << "\n" << "Transmission type : " << car05.transmission <<
endl;
            break;
    case 6:
            cout << "Name : " << car06.name << "\n" <<"Company : "<< car06.company <<
"\n" << "Body Type : " << car06.body_type << "\n" << "Engine Capacity : " <<
car06.engine_capacity << "\n" << "Top Speed : " << car06.top_speed << "\n" << "Fuel
Average : " << car06.fuel_avg << "\n" << "No of seats : " << car06.seats << "\n" <<
"Transmission type : " << car06.transmission << endl;
            break;
```

```cpp
        case 7:
                cout << "Name : " << car07.name << "\n" <<"Company : "<< car07.company <<
"\n" << "Body Type : " << car07.body_type << "\n" << "Engine Capacity : " <<
car07.engine_capacity << "\n" << "Top Speed : " << car07.top_speed << "\n" << "Fuel
Average : " << car07.fuel_avg << "\n" << "No of seats : " << car07.seats << "\n" <<
"Transmission type : " << car07.transmission << endl;
                break;
        case 8:
                cout << "Name : " << car08.name << "\n" <<"Company : "<< car08.company <<
"\n" << "Body Type : " << car08.body_type << "\n" << "Engine Capacity : " <<
car08.engine_capacity << "\n" << "Top Speed : " << car08.top_speed << "\n" << "Fuel
Average : " << car08.fuel_avg << "\n" << "No of seats : " << car08.seats << "\n" <<
"Transmission type : " << car08.transmission << endl;
                break;
        case 9:
                cout << "Name : " << car09.name << "\n" <<"Company : "<< car09.company <<
"\n" << "Body Type : " << car09.body_type << "\n" << "Engine Capacity : " <<
car09.engine_capacity << "\n" << "Top Speed : " << car09.top_speed << "\n" << "Fuel
Average : " << car09.fuel_avg << "\n" << "No of seats : " << car09.seats << "\n" <<
"Transmission type : " << car09.transmission << endl;
                break;
        case 10:
                cout << "Name : " << car10.name << "\n" <<"Company : "<< car10.company <<
"\n" << "Body Type : " << car10.body_type << "\n" << "Engine Capacity : " <<
car10.engine_capacity << "\n" << "Top Speed : " << car10.top_speed << "\n" << "Fuel Average
: " << car10.fuel_avg << "\n" << "No of seats : " << car10.seats << "\n" << "Transmission type : "
<< car10.transmission << endl;
                break;
        case 11:
                cout << "Name : " << car11.name << "\n" <<"Company : "<< car11.company <<
"\n" << "Body Type : " << car11.body_type << "\n" << "Engine Capacity : " <<
car11.engine_capacity << "\n" << "Top Speed : " << car11.top_speed << "\n" << "Fuel Average :
" << car11.fuel_avg << "\n" << "No of seats : " << car11.seats << "\n" << "Transmission type : "
<< car11.transmission << endl;
                break;
case 12:
                cout << "Name : " << car12.name << "\n" <<"Company : "<< car12.company <<
"\n" << "Body Type : " << car12.body_type << "\n" << "Engine Capacity : " <<
car12.engine_capacity << "\n" << "Top Speed : " << car12.top_speed << "\n" << "Fuel Average
: " << car12.fuel_avg << "\n" << "No of seats : " << car12.seats << "\n" << "Transmission type : "
<< car12.transmission << endl;
                break;
```

```cpp
case 13:
        cout << "Name : " << car13.name << "\n" <<"Company : "<< car13.company <<
"\n" << "Body Type : " << car13.body_type << "\n" << "Engine Capacity : " <<
car13.engine_capacity << "\n" << "Top Speed : " << car13.top_speed << "\n" << "Fuel Average
: " << car13.fuel_avg << "\n" << "No of seats : " << car13.seats << "\n" << "Transmission type : "
<< car13.transmission << endl;
        break;
    case 14:
        cout << "Name : " << car14.name << "\n" <<"Company : "<< car14.company <<
"\n" << "Body Type : " << car14.body_type << "\n" << "Engine Capacity : " <<
car14.engine_capacity << "\n" << "Top Speed : " << car14.top_speed << "\n" << "Fuel Average
: " << car14.fuel_avg << "\n" << "No of seats : " << car14.seats << "\n" << "Transmission type : "
<< car14.transmission << endl;
        break;
    case 15:
        cout << "Name : " << car15.name << "\n" <<"Company : "<< car15.company <<
"\n" << "Body Type : " << car15.body_type << "\n" << "Engine Capacity : " <<
car15.engine_capacity << "\n" << "Top Speed : " << car15.top_speed << "\n" << "Fuel Average
: " << car15.fuel_avg << "\n" << "No of seats : " << car15.seats << "\n" << "Transmission type : "
<< car15.transmission << endl;
        break;
    case 16:
        cout << "Name : " << car16.name << "\n" <<"Company : "<< car16.company <<
"\n" << "Body Type : " << car16.body_type << "\n" << "Engine Capacity : " <<
car16.engine_capacity << "\n" << "Top Speed : " << car16.top_speed << "\n" << "Fuel Average
: " << car16.fuel_avg << "\n" << "No of seats : " << car16.seats << "\n" << "Transmission type : "
<< car16.transmission << endl;
        break;
    case 17:
        cout << "Name : " << car17.name << "\n" <<"Company : "<< car17.company <<
"\n" << "Body Type : " << car17.body_type << "\n" << "Engine Capacity : " <<
car17.engine_capacity << "\n" << "Top Speed : " << car17.top_speed << "\n" << "Fuel Average
: " << car17.fuel_avg << "\n" << "No of seats : " << car17.seats << "\n" << "Transmission type : "
<< car17.transmission << endl;
        break;
    case 18:
        cout << "Name : " << car18.name << "\n" <<"Company : "<< car18.company <<
"\n" << "Body Type : " << car18.body_type << "\n" << "Engine Capacity : " <<
car18.engine_capacity << "\n" << "Top Speed : " << car18.top_speed << "\n" << "Fuel Average
: " << car18.fuel_avg << "\n" << "No of seats : " << car18.seats << "\n" << "Transmission type : "
<< car18.transmission << endl;
```

```cpp
            break;
        case 19:
                cout << "Name : " << car19.name << "\n" <<"Company : "<< car19.company <<
"\n" << "Body Type : " << car19.body_type << "\n" << "Engine Capacity : " <<
car19.engine_capacity << "\n" << "Top Speed : " << car19.top_speed << "\n" << "Fuel Average
: " << car19.fuel_avg << "\n" << "No of seats : " << car19.seats << "\n" << "Transmission type : "
<< car19.transmission << endl;
                break;
        }

        cout<< "\n";
        cout<< "\t :::2nd Car:::"<< endl;
        cout<< "\n";

        switch (selector2)
        { case 1:
                cout << "Name : " << car01.name << "\n" <<"Company : "<< car01.company <<
"\n" << "Body Type : " << car01.body_type << "\n" << "Engine Capacity : " <<
car01.engine_capacity << "\n" << "Top Speed : " << car01.top_speed << "\n" << "Fuel Average
: " << car01.fuel_avg << "\n" << "No of seats : " << car01.seats << "\n" << "Transmission type : "
<< car01.transmission << endl;
                break;
        case 2:
                cout << "Name : " << car02.name << "\n" <<"Company : "<< car02.company <<
"\n" << "Body Type : " << car02.body_type << "\n" << "Engine Capacity : " <<
car02.engine_capacity << "\n" << "Top Speed : " << car02.top_speed << "\n" << "Fuel
Average : " << car02.fuel_avg << "\n" << "No of seats : " << car02.seats << "\n" <<
"Transmission type : " << car02.transmission << endl;
                break;
        case 3:
                cout << "Name : " << car03.name << "\n" <<"Company : "<< car03.company <<
"\n" << "Body Type : " << car03.body_type << "\n" << "Engine Capacity : " <<
car03.engine_capacity << "\n" << "Top Speed : " << car03.top_speed << "\n" << "Fuel
Average : " << car03.fuel_avg << "\n" << "No of seats : " << car03.seats << "\n" <<
"Transmission type : " << car03.transmission << endl;
                break;
```

```cpp
        case 4:
                cout << "Name : " << car04.name << "\n" <<"Company : "<< car04.company <<
"\n" << "Body Type : " << car04.body_type << "\n" << "Engine Capacity : " <<
car04.engine_capacity << "\n" << "Top Speed : " << car04.top_speed << "\n" << "Fuel
Average : " << car04.fuel_avg << "\n" << "No of seats : " << car04.seats << "\n" <<
"Transmission type : " << car04.transmission << endl;
                break;
        case 5:
                cout << "Name : " << car05.name << "\n" <<"Company : "<< car05.company <<
"\n" << "Body Type : " << car05.body_type << "\n" << "Engine Capacity : " <<
car05.engine_capacity << "\n" << "Top Speed : " << car05.top_speed << "\n" << "Fuel
Average : " << car05.fuel_avg << "\n" << "No of seats : " << car05.seats << "\n" <<
"Transmission type : " << car05.transmission << endl;
                break;
        case 6:
                cout << "Name : " << car06.name << "\n" <<"Company : "<< car06.company <<
"\n" << "Body Type : " << car06.body_type << "\n" << "Engine Capacity : " <<
car06.engine_capacity << "\n" << "Top Speed : " << car06.top_speed << "\n" << "Fuel
Average : " << car06.fuel_avg << "\n" << "No of seats : " << car06.seats << "\n" <<
"Transmission type : " << car06.transmission << endl;
                break;
        case 7:
                cout << "Name : " << car07.name << "\n" <<"Company : "<< car07.company <<
"\n" << "Body Type : " << car07.body_type << "\n" << "Engine Capacity : " <<
car07.engine_capacity << "\n" << "Top Speed : " << car07.top_speed << "\n" << "Fuel
Average : " << car07.fuel_avg << "\n" << "No of seats : " << car07.seats << "\n" <<
"Transmission type : " << car07.transmission << endl;
                break;
        case 8:
                cout << "Name : " << car08.name << "\n" <<"Company : "<< car08.company <<
"\n" << "Body Type : " << car08.body_type << "\n" << "Engine Capacity : " <<
car08.engine_capacity << "\n" << "Top Speed : " << car08.top_speed << "\n" << "Fuel
Average : " << car08.fuel_avg << "\n" << "No of seats : " << car08.seats << "\n" <<
"Transmission type : " << car08.transmission << endl;
                break;
        case 9:
                cout << "Name : " << car09.name << "\n" <<"Company : "<< car09.company <<
"\n" << "Body Type : " << car09.body_type << "\n" << "Engine Capacity : " <<
car09.engine_capacity << "\n" << "Top Speed : " << car09.top_speed << "\n" << "Fuel
Average : " << car09.fuel_avg << "\n" << "No of seats : " << car09.seats << "\n" <<
"Transmission type : " << car09.transmission << endl;
                break;
```

```cpp
case 10:
        cout << "Name : " << car10.name << "\n" <<"Company : "<< car10.company <<
"\n" << "Body Type : " << car10.body_type << "\n" << "Engine Capacity : " <<
car10.engine_capacity << "\n" << "Top Speed : " << car10.top_speed << "\n" << "Fuel Average
: " << car10.fuel_avg << "\n" << "No of seats : " << car10.seats << "\n" << "Transmission type : "
<< car10.transmission << endl;
        break;
    case 11:
        cout << "Name : " << car11.name << "\n" <<"Company : "<< car11.company <<
"\n" << "Body Type : " << car11.body_type << "\n" << "Engine Capacity : " <<
car11.engine_capacity << "\n" << "Top Speed : " << car11.top_speed << "\n" << "Fuel Average :
" << car11.fuel_avg << "\n" << "No of seats : " << car11.seats << "\n" << "Transmission type : "
<< car11.transmission << endl;
        break;
    case 12:
        cout << "Name : " << car12.name << "\n" <<"Company : "<< car12.company <<
"\n" << "Body Type : " << car12.body_type << "\n" << "Engine Capacity : " <<
car12.engine_capacity << "\n" << "Top Speed : " << car12.top_speed << "\n" << "Fuel Average
: " << car12.fuel_avg << "\n" << "No of seats : " << car12.seats << "\n" << "Transmission type : "
<< car12.transmission << endl;
        break;
    case 13:
        cout << "Name : " << car13.name << "\n" <<"Company : "<< car13.company <<
"\n" << "Body Type : " << car13.body_type << "\n" << "Engine Capacity : " <<
car13.engine_capacity << "\n" << "Top Speed : " << car13.top_speed << "\n" << "Fuel Average
: " << car13.fuel_avg << "\n" << "No of seats : " << car13.seats << "\n" << "Transmission type : "
<< car13.transmission << endl;
        break;
    case 14:
        cout << "Name : " << car14.name << "\n" <<"Company : "<< car14.company <<
"\n" << "Body Type : " << car14.body_type << "\n" << "Engine Capacity : " <<
car14.engine_capacity << "\n" << "Top Speed : " << car14.top_speed << "\n" << "Fuel Average
: " << car14.fuel_avg << "\n" << "No of seats : " << car14.seats << "\n" << "Transmission type : "
<< car14.transmission << endl;
        break;
    case 15:
        cout << "Name : " << car15.name << "\n" <<"Company : "<< car15.company <<
"\n" << "Body Type : " << car15.body_type << "\n" << "Engine Capacity : " <<
car15.engine_capacity << "\n" << "Top Speed : " << car15.top_speed << "\n" << "Fuel Average
: " << car15.fuel_avg << "\n" << "No of seats : " << car15.seats << "\n" << "Transmission type : "
<< car15.transmission << endl;
        break;
```

```cpp
case 16:
        cout << "Name : " << car16.name << "\n" <<"Company : "<< car16.company <<
"\n" << "Body Type : " << car16.body_type << "\n" << "Engine Capacity : " <<
car16.engine_capacity << "\n" << "Top Speed : " << car16.top_speed << "\n" << "Fuel Average
: " << car16.fuel_avg << "\n" << "No of seats : " << car16.seats << "\n" << "Transmission type : "
<< car16.transmission << endl;
        break;
    case 17:
        cout << "Name : " << car17.name << "\n" <<"Company : "<< car17.company <<
"\n" << "Body Type : " << car17.body_type << "\n" << "Engine Capacity : " <<
car17.engine_capacity << "\n" << "Top Speed : " << car17.top_speed << "\n" << "Fuel Average
: " << car17.fuel_avg << "\n" << "No of seats : " << car17.seats << "\n" << "Transmission type : "
<< car17.transmission << endl;
        break;
    case 18:
        cout << "Name : " << car18.name << "\n" <<"Company : "<< car18.company <<
"\n" << "Body Type : " << car18.body_type << "\n" << "Engine Capacity : " <<
car18.engine_capacity << "\n" << "Top Speed : " << car18.top_speed << "\n" << "Fuel Average
: " << car18.fuel_avg << "\n" << "No of seats : " << car18.seats << "\n" << "Transmission type : "
<< car18.transmission << endl;
        break;
    case 19:
        cout << "Name : " << car19.name << "\n" <<"Company : "<< car19.company <<
"\n" << "Body Type : " << car19.body_type << "\n" << "Engine Capacity : " <<
car19.engine_capacity << "\n" << "Top Speed : " << car19.top_speed << "\n" << "Fuel Average
: " << car19.fuel_avg << "\n" << "No of seats : " << car19.seats << "\n" << "Transmission type : "
<< car19.transmission << endl;
        break;
    }
    getch();
    return 0;
}
```

OUTPUT

```
"C:\Users\AD Khanzada\Documents\C++\CP project\CP project v4.exe"                    —    □    ✕
WELCOME TO HC SHOWROOM!!
don't just dream, let's drive.

        :: SELECT ANY 2 CARS ::

1 = Civic
2 = Corolla Altis Grande
3 = Vezel
4 = BRV
5 = HS
6 = ZS
7 = Glory 580 pro
8 = X-70
9 = Yaris
10 = City
11 = Saga
12 = Swift
13 = Cultus
14 = Vitz
15 = Piacnto
16 = Wagon-R
17 = Alto
18 = Mira
19 = Dayz

Select First Car: 6
Select Second Car: 7

        :::1st Car:::

Name : ZS
Company : MG
Body Type : Crossover
Engine Capacity : 1500 CC
Top Speed : 150 km/h
Fuel Average : 14 km/l
No of seats : 5
Transmission type : Automatic

        :::2nd Car:::

Name : Glory 580 Pro
Company : DFSK
Body Type : Crossover
Engine Capacity : 1500 CC
Top Speed : 220 km/h
Fuel Average : 12 km/l
No of seats : 5
Transmission type : Automatic
```

REQUIREMENTS

HARDWARE REQUIRED

- **Printer:** to print the required documents of the project
- **Compact Drive**
- **Processor:** Intel(R) Core(TM)
- **RAM:** 512 MB or more than 512MB
- **Hard Disk:** 80 GB or more than 80GB.

SOFTWARE REQUIRED

- **Operating system:** Windows 10
- **Turbo C++,** for execution of program and **Ms word,** for presentation of output.
- **Compiler:** we have used DEV C++ to write source code but other compilers also used which includes code block, MinGW, Borland C++ and etc.

CONCLUSION

This program efficiently helps the customers to decide which car is more eligible for their respective criteria. Hopefully, it will useful for the showrooms due to its simplicity and the basic codes of C++.

A lot of car comparison application and programs are already leading but this is the most simplest and easiest of them.

It is the best way to reduces the time of the customers while making decisions, to replace that verbal decision it gives the result in nanoseconds to avoid wastage of time.

As we know the future is full of IT we hope that it will leads the other software and programs.

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CAR COMPARISON SYSTEM