

## Problem Statement: Car Information System

### Objective

Develop a program that allows users to input details about a car and then displays the car's details along with its age.

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### Description

You are required to implement a public **Car** class in C# that models the basic details of a car, including its make, model, and year of manufacture.

The program should then display these details and calculate the car's age based on the current year (**2024**).

Write the solution within the **Program.cs** file.

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### Requirements

#### 1. Class Definition

- Create a class named **Car**.

#### 2. Properties

Implement the following public properties:

- **Make** (*string*) – stores the car's make
- **Model** (*string*) – stores the car's model
- **Year** (*int*) – stores the year the car was manufactured

#### 3. Constructor

- Create a constructor that accepts **make**, **model**, and **year** as parameters and initializes the properties.

#### 4. Methods

Implement the following public methods:

- **DisplayDetails()**  
Displays the car's make, model, and year.

- **DisplayAge()**  
Calculates and displays the age of the car based on the current year (2024).

## 5. Main Program

- Prompt the user to input the car's make, model, and year.
  - Create an instance of the **Car** class using the input values.
  - Display the car's details using `DisplayDetails()`.
  - Display the car's age using `DisplayAge()`.
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## Input Format

The program should prompt the user to enter:

- **Make** – string
  - **Model** – string
  - **Year** – integer
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## Output Format

- The details of the car (make, model, year)
  - The age of the car in years
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## Sample Input 1

```
Toyota  
Corolla  
2018
```

## Sample Output 1

```
Car Details:  
Make: Toyota  
Model: Corolla  
Year: 2018  
Car Age: 6 years
```

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## Sample Input 2

```
Honda
```

Civic  
2015

## Sample Output 2

Car Details:  
Make: Honda  
Model: Civic  
Year: 2015  
Car Age: 9 years

Answer:

*class Car*

```
{  
  
    public string Make{get;set;}  
  
    public string Model{get;set;}  
  
    public int Year{get;set;}  
  
  
    public Car(string make,string model,int year)  
    {  
        Make = make;  
        Model = model;  
        Year = year;  
    }  
  
    public void DisplayDetails()  
    {  
        Console.WriteLine("Make: "+Make);  
        Console.WriteLine("Model: "+Model);  
        Console.WriteLine("Year :"+Year);  
    }  
}
```

```
public void DisplayAge()
{
    Console.WriteLine("Car Age :"+(2025-Year)+" years");
}
}

class Program
{
    public static void Main()
    {

        string make;

        string model;

        int year;

        Console.Write("Enter make of the car: ");

        make = Console.ReadLine() ?? "";

        Console.Write("Enter model of the car: ");

        model = Console.ReadLine() ?? "";

        Console.Write("Enter year of the car: ");

        year = Convert.ToInt32(Console.ReadLine());

        Car car1 = new Car(make,model,year);

        Console.WriteLine("\nCar Details: ");

        car1.DisplayDetails();

        car1.DisplayAge();

    }
}
```

