using System;

using System.Collections.Generic;

using System.Globalization;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

//namespace Cs\_Lesson4

//{

// internal class Program

// {

// static void Main(string[] args)

// {

// Console.Title = "C# Lesson 4";

// //double amount = 1234.95;

// //var data = amount.ToString("C", CultureInfo.GetCultureInfo("en-US"));

// //Console.WriteLine(data);

// //DateTime dateTime = DateTime.Now;

// ////Console.WriteLine(dateTime);

// //Console.WriteLine(dateTime.ToLongDateString());

// //Console.WriteLine(dateTime.ToShortDateString());

// //Console.WriteLine(dateTime.ToLongTimeString());

// //Console.WriteLine(dateTime.ToShortTimeString());

// //Console.WriteLine(dateTime.DayOfYear);

// //Console.WriteLine(dateTime.DayOfWeek);

// //Console.WriteLine(dateTime.Month);

// //Console.WriteLine(dateTime.Day);

// //Console.WriteLine(dateTime.Year);

// //DateTime today = DateTime.Now;

// //var tommorow = today.AddDays(1);//.AddHours(20);

// //var yesterday = today.AddDays(-1);

// //Console.WriteLine($"Today : {today}");

// //Console.WriteLine($"Tommorow : {tommorow}");

// //Console.WriteLine($"Yesterday : {yesterday}");

// //DateTime mybirthday = new DateTime(2006,2,23);

// //Console.WriteLine(mybirthday.ToLongDateString());

// //DateTime currentDate = DateTime.Now;

// //var difference = currentDate - mybirthday;

// //Console.WriteLine(difference);

// //var dateTime1 = new DateTime(1, 1, 1);

// //var dateTime2 = new DateTime(2, 1, 1);

// //Console.WriteLine(dateTime1.Equals(dateTime2));

// // Equals vs Reference Equals

// //// Equals

// //int a = 100;

// //int b = 100;

// //Console.WriteLine(Object.Equals(a,b));

// //// Reference Equals

// //Console.WriteLine(Object.ReferenceEquals(a,b));

// //int[] array = { 1, 2, 3 };

// //int[] array2 = { 1, 2, 3 };

// //array2 = array;

// //Console.WriteLine(Object.Equals(array,array2));

// //var countries = GetCountries();

// //countries.Sort();

// //countries = countries.Distinct().ToList();

// //foreach (var item in countries)

// //{

// // Console.WriteLine(item);

// //}

// }

// //private static List<string> GetCountries()

// //{

// // List<string> culturesInfo = new List<string>();

// // var cultures = CultureInfo.GetCultures(CultureTypes.SpecificCultures);

// // foreach (var culture in cultures)

// // {

// // var info = new RegionInfo(culture.Name);

// // if (!culturesInfo.Contains(culture.EnglishName))

// // {

// // culturesInfo.Add($"{info.EnglishName} - {info.CurrencyEnglishName}");

// // }

// // }

// // return culturesInfo;

// //}

// }

//}

using System;

using System.Collections.Generic;

using System.Globalization;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace string\_class

{

//struct Point

//{

// public int x;

// public int y;

//}

//class Point

//{

// public int x;

// public int y;

//}

//public class Program

//{

// static void Main()

// {

// //Point point = new Point();

// //point.x = 100;

// //Point[] points = new Point[10];

// //points[0] = new Point();

// //Console.WriteLine(points[0].x);

// }

//}

//class Student

//{

// private int age;

// private string name;

// private string surname;

// public Student(int age, string name, string surname)

// {

// this.age = age;

// this.name = name;

// this.surname = surname;

// }

// //public int GetAge()

// //{

// // return age;

// //}

// public int GetAge() => age; // arrow function - getterin qisa formasi

// public string GetName()

// {

// return name;

// }

// public string GetSurname()

// {

// return surname;

// }

// public void SetAge(int age)

// {

// this.age = age;

// }

//}

//class Program

//{

// static void Main(string[] args)

// {

// Student student = new Student(23,"John","Johnlu");

// var age = student.GetAge();

// Console.WriteLine(age);

// student.SetAge(30);

// age = student.GetAge();

// Console.WriteLine(age);

// }

//}

//class Teacher

//{

// //public int Salary { get; set; }

// private int Salary { get; set; } // auto property

// private int myVar;

// public int MyProperty

// {

// get { return myVar; }

// set { myVar = value; }

// }

// public Teacher(int salary)

// {

// Salary = salary;

// }

//}

//class Program

//{

// static void Main(string[] args)

// {

// Teacher teacher = new Teacher(100);

// teacher.Salary = 100;

// Console.WriteLine(teacher.Salary);

// }

//}

//class Student

//{

// public int Age { get; set; }

// public int Id { get; set; } = default;

// public string name { get; set; } = string.Empty;

// public string surname { get; set; } = "No Surname";

// public Student(int id, string name, int age)

// {

// this.Id = id;

// this.name = name;

// this.Age = age;

// }

// public Student(int id, string name, string surname, int age)

// : this(id, name, age)

// {

// this.surname = surname;

// Age = age;

// }

// public int GetBirthYear() => DateTime.Now.Year - Age;

// public void Show()

// {

// Console.WriteLine($"Id : {Id}");

// Console.WriteLine($"Name : {name}");

// Console.WriteLine($"Surname : {surname}");

// Console.WriteLine($"Age: {Age}");

// }

//}

//class Program

//{

// static void Main(string[] args)

// {

// Student student = new Student(1, "John", 16);

// Console.WriteLine(student.surname);

// Console.WriteLine(student.GetBirthYear());

// student.Show();

// Student student2 = new Student(id: 100, name: "Jale", surname: "Jaleli",age:30);

// student2.Show();

// Student student2 = new Student()

// {

// };

// }

//}

//class Car

//{

// public int id{ get; set; }

// public int volume { get; set; }

// public string model{ get; set; }

// public string vendor{ get; set; }

// public int produceYear{ get; set; }

// public void Show()

// {

// Console.WriteLine($"ID : {id}");

// Console.WriteLine($"Model : {model}");

// Console.WriteLine($"Volume : {volume}");

// Console.WriteLine($"Vendor : {vendor}");

// Console.WriteLine($"Produce Year : {produceYear}");

// }

// public int GetCarAge() => DateTime.Now.Year - produceYear;

//}

class Car

{

//public int id { get; set; }

//public int volume { get; set; }

//public string model { get; set; }

//public string vendor { get; set; }

//public int produceYear { get; set; }

private int id;

public int Id

{

get { return id; }

set {

if (value > 0)

{

id = value;

}

}

}

private int volume;

public int Volume

{

get { return volume; }

set

{

if (value > 0)

volume = value;

}

}

private string model;

public string Model

{

get { return model; }

set

{

if (!string.IsNullOrEmpty(value))

model = value;

}

}

private string vendor;

public string Vendor

{

get { return vendor; }

set

{

if (!string.IsNullOrEmpty(value))

vendor = value;

}

}

private int produceYear;

public int ProduceYear

{

get { return produceYear; }

set

{

if (value > 0)

produceYear = value;

}

}

public void Show()

{

Console.WriteLine($"ID : {id}");

Console.WriteLine($"Model : {model}");

Console.WriteLine($"Volume : {volume}");

Console.WriteLine($"Vendor : {vendor}");

Console.WriteLine($"Produce Year : {produceYear}");

}

public int GetCarAge() => DateTime.Now.Year - produceYear;

}

public class Program

{

static void Main(string[] args)

{

//Car car = new Car()

//{

// id = 1,

// model = "Mercedes",

// produceYear = 2020,

// vendor = "vendor",

// volume = 4

//};

//car.Show();

//Console.WriteLine($"Car Age : {car.GetCarAge()}");

Car car = new Car();

car.Id = 1;

car.Model = "BMW";

car.Vendor = "Vendor";

car.ProduceYear = 2010;

car.Volume = 4;

car.Show();

Console.WriteLine($"Car Age : {car.GetCarAge()}");

}

}

}