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***Лабораторная работа №4***

*Задание: разработать программу, реализующую работу с классами на языке* ***C#***

Код программы:

csharp

using System;

namespace Cars

{

abstract class Car

{

public string Model { get; set; }

public int Year { get; set; }

public abstract void Drive();

public override string ToString()

{

return $"Model: {Model}, Year: {Year}";

}

}

class SportsCar : Car, IPrint

{

public SportsCar(string model, int year)

{

Model = model;

Year = year;

}

public override void Drive()

{

Console.WriteLine($"Driving a {Model} sports car!");

}

public void Print()

{

Console.WriteLine($"Sports Car: {ToString()}");

}

}

class SUV : Car, IPrint

{

public SUV(string model, int year)

{

Model = model;

Year = year;

}

public override void Drive()

{

Console.WriteLine($"Driving a {Model} SUV!");

}

public void Print()

{

Console.WriteLine($"SUV: {ToString()}");

}

}

class Truck : Car, IPrint

{

public Truck(string model, int year)

{

Model = model;

Year = year;

}

public override void Drive()

{

Console.WriteLine($"Driving a {Model} truck!");

}

public void Print()

{

Console.WriteLine($"Truck: {ToString()}");

}

}

interface IPrint

{

void Print();

}

class Program

{

static void Main(string[] args)

{

SportsCar sportsCar = new SportsCar("Porsche 911", 2021);

SUV suv = new SUV("Jeep Grand Cherokee", 2022);

Truck truck = new Truck("Ford F-150", 2020);

sportsCar.Drive();

suv.Drive();

truck.Drive();

sportsCar.Print();

suv.Print();

truck.Print();

Console.ReadKey();

}

}

}

***Результаты:***

