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Лабораторная работа №3

Код на C#:

```
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();
        }
    }
}
```

Код на Python:

```
class Car:
    def __init__(self, model, year):
        self.model = model
        self.year = year

    def drive(self):
        pass

    def __str__(self):
        return f"Model: {self.model}, Year: {self.year}"


class SportsCar(Car):
    def __init__(self, model, year):
        super().__init__(model, year)

    def drive(self):
        print(f"Driving a {self.model} sports car!")

    def print(self):
        print(f"Sports Car: {str(self)}")


class SUV(Car):
    def __init__(self, model, year):
        super().__init__(model, year)

    def drive(self):
        print(f"Driving a {self.model} SUV!")

    def print(self):
        print(f"SUV: {str(self)}")


class Truck(Car):
    def __init__(self, model, year):
        super().__init__(model, year)

    def drive(self):
        print(f"Driving a {self.model} truck!")
```

```
    def print(self):
        print(f"Truck: {str(self)}")


sportsCar = SportsCar("Porsche 911", 2021)
suv = SUV("Jeep Grand Cherokee", 2022)
truck = Truck("Ford F-150", 2020)

sportsCar.drive()
suv.drive()
truck.drive()

sportsCar.print()
suv.print()
truck.print()
```