using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{

abstract class Vehicle

{

public string Model { get; set; }

public string Vendor { get; set; }

public int Capacity { get; set; }

public abstract void Print();

public abstract void Move();

}

abstract class A :Vehicle

{

public abstract void Show();

}

class Derived : A

{

public override void Move()

{

throw new NotImplementedException();

}

public override void Print()

{

throw new NotImplementedException();

}

public override void Show()

{

throw new NotImplementedException();

}

}

class Airplane : Vehicle

{

public string PilotName { get; set; }

public override void Move()

{

Console.WriteLine("I am flying");

}

public override void Print()

{

Console.WriteLine($"Pilot Name {PilotName}");

Console.WriteLine($"Model {Model} Vendor {Vendor} Capacity {Capacity}");

}

}

class Airbus : Airplane

{

public override sealed void Move()

{

Console.WriteLine($"I can fly faster than normal airplane");

}

}

//class AirbusLarge : Airbus

//{

// public override void Move()

// {

// Console.WriteLine($"I can fly faster than normal airplane");

// }

//}

class Car : Vehicle

{

public override void Move()

{

Console.WriteLine("VNNNNVNVNNV VNNVNVNNVVVVN");

}

public override void Print()

{

Console.WriteLine($"Car {Model} {Vendor}");

}

}

public class Program

{

static void Main(string[] args)

{

//Airbus airbus = new Airbus

//{

// PilotName = "Elchin Quliyev"

//};

//Vehicle vehicle = airbus;

//try

//{

// //Car car = vehicle;//error

//}

//catch (Exception ex)

//{

// Console.WriteLine(ex.Message);

//}

//try

//{

//var airplane = (Car)vehicle;

//}

//catch (Exception ex)

//{

// Console.WriteLine(ex.Message);

//}

//var airplane = vehicle as Airplane;

//if(airplane != null)

//{

// Console.WriteLine(airplane.PilotName);

//}

// Console.WriteLine(airplane?.PilotName);

//if(vehicle is Airbus a)

//{

// Console.WriteLine(a.PilotName);

//}

//Vehicle[] vehicles =

//{

// new Car

// {

// Model="Malibu",

// Vendor="Chevrolet",

// Capacity=5

// },

// new Airplane

// {

// Model="Boeng-747",

// Vendor="Boeng",

// Capacity=220,

// PilotName="Rafiq Eliyev"

// },

// new Airbus

// {

// Model="Airbus-300",

// Vendor="Airbus",

// Capacity=180,

// PilotName="John John"

// }

//};

//foreach (var vehicle in vehicles)

//{

// vehicle.Move();

// vehicle.Print();

//}

}

}

}