using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace CSharpAssignment1

{

class MainClass

{

static void Main(string[] args)

{

Person[] Person = new CSharpAssignment1.Person[5];

Person[0] = new Student("ramesh",78.45);

Student\_Result(Person[0].isOutStanding());

Console.WriteLine("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

Person[1] = new Student("suresh", 86.45);

Student\_Result(Person[1].isOutStanding());

Console.WriteLine("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

Person[2] = new Student("senthil", 94.5);

Student\_Result(Person[2].isOutStanding());

Console.WriteLine("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

Person[3] = new Professor("Bala", 7);

Professor\_Result(Person[3].isOutStanding());

Console.WriteLine("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

Person[4] = new Professor("Murugan", 4);

Professor\_Result(Person[4].isOutStanding());

Console.WriteLine("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

Console.ReadLine();

static void Student\_Result(bool result)

{

if (result)

Console.WriteLine("This Student is secured more than 85 and he is outstanding!..");

else

Console.WriteLine("This Student is did not secured more than 85 and he is not outstanding!..");

}

static void Professor\_Result(bool result)

{

if (result)

Console.WriteLine("This Professor is published more than 4 and he is outstanding!..");

else

Console.WriteLine("This Professor is did not published more than 4 and he is not outstanding!..");

}

}

public class Person

{

public string name

{

get;

set;

}

public Person() { }

public Person(string name)

{

this.name = name;

}

virtual public bool isOutStanding() { return true; }

}

public class Professor : Person

{

public Professor(string name, int booksPublished)

{

this.name = name;

this.booksPublished = booksPublished;

}

public int booksPublished { get; set; }

public override bool isOutStanding()

{

Console.WriteLine( Display());

return booksPublished > 4;

}

public string Display()

{

return "Professor " + this.name + " has Published " + Convert.ToString(booksPublished) + " number of books !..";

}

}

public class Student : Person

{

public Student(string name, double percentage)

{

this.name = name;

this.percentage = percentage;

}

public double percentage { get; set; }

public override bool isOutStanding()

{

Console.WriteLine(print());

return percentage > 85;

}

public string print()

{

return "Student " + this.name + " secured percentage :" + Convert.ToString(percentage) + " !..";

}

}

}

