using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace DotNet\_2

{

public class Program

{

static void Main(string[] args)

{

Person[] Personclass = new Person[5];

Personclass[0] = new Student("Raguvaran", 90);

Personclass[1] = new Student("Prakash", 50);

Personclass[2] = new Student("Shankar", 86);

Personclass[3] = new Professor("Santhosh", 5);

Personclass[4] = new Professor("Sakthi", 2);

foreach(var p in Personclass)

{

if(p.IsOutStanding())

{

if(p is Student)

{

((Student)p).display();

}

else if (p is Professor)

{

((Professor)p).print();

}

}

}

Console.ReadLine();

}

}

public class Person

{

public string Name { get; set; }

#region Constructor

public Person()

{

}

public Person(string Name)

{

this.Name = Name;

}

#endregion Constructor

#region Methods

public virtual bool IsOutStanding()

{

return true;

}

#endregion

}

public class Professor : Person

{

public int booksPublished { get; set; }

#region Constructor

public Professor()

{

}

public Professor(string name, int bookspublished)

{

this.booksPublished = bookspublished;

this.Name = name;

}

#endregion Constructor

#region Methods

public void print()

{

Console.WriteLine("Professor " + this.Name + " has published " + this.booksPublished + " number of books");

}

public override bool IsOutStanding()

{

return booksPublished > 4;

}

#endregion

}

public class Student : Person

{

public double percentage { get; set; }

#region Constructor

public Student()

{

}

public Student(string name, double Percentage)

{

this.percentage = Percentage;

this.Name = name;

}

#endregion Constructor

#region Methods

public void display()

{

Console.WriteLine("Student " + this.Name + " has scroed " + this.percentage + " percentage");

}

public override bool IsOutStanding()

{

return percentage > 85;

}

#endregion

}

}

Output:

