using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace StructApp

{

delegate void Deleg1();

delegate void Deleg2();

delegate string Deleg3(string s);

class Events

{

public event Deleg1 Ev1;

public void OnEv1()

{

Ev1();

Console.WriteLine("Произошло событие");

}

public event Deleg2 Ev2;

public void OnEv2()

{

Ev2();

Console.WriteLine("Событие произошло.");

}

public event Deleg3 Ev3;

public string OnEv3(string s)

{

return Ev3(s);

}

}

abstract class People

{

public string pol;

public void Write()

{

Console.WriteLine("Пол: " + pol);

}

}

class Kadr : People

{

public string number;

public virtual void Vyvod()

{

Console.WriteLine("Номер кадра: " + number);

}

}

class Inzener : Kadr

{

public string fio;

public virtual void FIO()

{

Console.WriteLine("ФИО: " + fio);

}

}

class Work : Inzener

{

public string mesto;

public virtual void Place()

{

Console.WriteLine("Цех: " + mesto);

Deleg2 del2 = delegate ()

{

Console.WriteLine("Анонимный");

};

del2();

}

}

class Admin : Inzener

{

public string nomer;

public virtual void Kab()

{

Console.WriteLine("Номер личного кабинета: " + nomer);

Deleg1 del1 = delegate ()

{

Console.WriteLine("Метод");

};

del1();

}

}

class Program

{

static Deleg3 D(string sss)

{

string ss = "1";

Deleg3 del3 = delegate (string s)

{

ss += s + "2";

return ss;

};

return del3;

}

static void Main(string[] args)

{

Events evt = new Events();

string sss = "3";

evt.Ev3 += D(sss);

Console.WriteLine("Событие: {0}", evt.OnEv3(sss));

Console.WriteLine();

Work a1 = new Work();

a1.pol = "Ж";

a1.number = "532121";

a1.fio = "Топарь Г.Ж.";

a1.mesto = "19Б-3";

a1.Write();

a1.Vyvod();

a1.FIO();

evt.Ev2 += a1.Place;

evt.OnEv2();

Console.WriteLine();

Admin a2 = new Admin();

a2.pol = "М";

a2.number = "315235";

a2.fio = "Ждук Б.С.";

a2.nomer = "107";

a2.Write();

a2.Vyvod();

a2.FIO();

evt.Ev1 += a2.Kab;

evt.OnEv1();

Console.ReadKey();

}

}

}