**Приложение 14**

**Практическая работа №15**

Задание 2

Задание 2.1

using System;

using System.Collections.Generic;

using System.Linq;

class Rates

{

public string Titel { get; set; }

public int Calls { get; set; }

public Rates(string t, int c)

{

Titel = t;

Calls = c;

}

}

class ATC

{

List<Rates> lstCL = new List<Rates>();

List<Customer> lstCustomer = new List<Customer>();

Customer currentCust;

public void AddRates(string t, int c)

{

lstCL.Add(new Rates(t, c));

}

public void AddCustomer(String f, CustomerType ct)

{

lstCustomer.Add(new Customer(f, ct));

}

Customer GetCustByFio(string f)

{

foreach (Customer item in lstCustomer)

{

if (item.Fio == f) return item;

}

return null;

}

Rates GetCLByTitle(string t)

{

foreach (Rates item in lstCL)

{ if (item.Titel == t) return item; }

return null;

}

public void LogIn(string f)

{

if (currentCust == null)

currentCust = GetCustByFio(f);

}

public void LogOut()

{

currentCust = null;

}

public void BuyRates(string Rates)

{

Rates c = GetCLByTitle(Rates);

currentCust.BuyRates(c);

}

public int GetTotalSum()

{

int sum = 0;

foreach (Customer cust in lstCustomer)

{

foreach (Rates c in cust.LstCallsOfCust)

{

sum += c.Calls;

}

}

return sum;

}

public string GetRatesByName(string Fio)

{

Customer cust = GetCustByFio(Fio);

string s = "Пациент: " + cust.Fio + "\n";

foreach (Rates c in cust.LstCallsOfCust)

{

s += c.Titel + ": " + c.Calls + "\n";

}

return s;

}

}

enum CustomerType { VIP, usual };

class Customer

{

List<Rates> lstCLOfCust = new List<Rates>();

public List<Rates> LstCallsOfCust

{

get { return lstCLOfCust; }

}

public String Fio { get; set; }

public CustomerType cType { get; set; }

public Customer(String f, CustomerType ct)

{

Fio = f;

cType = ct;

}

public void BuyRates(Rates c)

{

lstCLOfCust.Add(c);

}

public int GetSum()

{

int s = 0;

foreach (Rates item in lstCLOfCust)

{

s += item.Calls;

}

return s;

}

}

class Program

{

static void Main()

{

ATC a = new ATC();

a.AddRates("Укол", 10);

a.AddRates("Таблетка", 5);

a.AddRates("Пластырь", 3);

a.AddCustomer("Владислав", CustomerType.VIP);

a.AddCustomer("Руслан", CustomerType.usual);

a.LogIn("Владислав");

a.BuyRates("Укол");

a.BuyRates("Пластырь");

a.LogOut();

a.LogIn("Руслан");

a.BuyRates("Пластырь");

a.BuyRates("Таблетка");

a.LogOut();

Console.WriteLine("Общая стоимость дигностики: " + a.GetTotalSum());

Console.WriteLine(a.GetRatesByName("Владислав"));

Console.WriteLine(a.GetRatesByName("Руслан"));

Console.ReadKey();

}

}