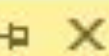


Оценки студента в ведомостях дисциплин

классы

Student.h



Student.cpp

ExamSheet.h

ExamSheet.cpp

PracticalLesson2

(Глобальная об.

```
#pragma once
using namespace System;
using namespace System::Collections;

ref class Student
{
public:
    Student(String^, DateTime^, DateTime^, String^);
    int GetAge();
    String^ GetName();
    ArrayList^ GetMarks(ArrayList^);
private:
    Student();
    String^ Name;
    System::DateTime^ dBirth;
    DateTime^ dStart;
    String^ Id;
};
```

```
#include "stdafx.h"
#include "Student.h"
#include "ExaminSheet.h"

Student::Student()
{
}

Student::Student(String^ sName, DateTime^ sdBirth, DateTime^ sdStart, String^ sId)
{
    this->Name = sName;
    this->dBirth = sdBirth;
    this->dStart = sdStart;
    this->Id = sId;
}

int Student::GetAge()
{
    DateTime t;
    return t.Now.Year - dBirth->Year;
}

String^ Student::GetName()
{
    return this->Name;
}
```

Student.h

Student.cpp

ExaminSheet.h

ExaminSheet.cp

PracticalLesson2

Student

```
ArrayList^ Student::GetMarks(ArrayList^ Sh)
{
    ArrayList^ r = gcnew ArrayList();
    for (int i = 0; i < Sh->Count; i++)
    {
        ExaminSheet^ h = (ExaminSheet^) Sh[i];
        Hashtable^ tab = h->GetMarkList();
        if (tab->Contains(Name))
        {
            r->Add(tab[Name]);
        }
    }
    return r;
}
```

```
#pragma once
using namespace System;
using namespace System::Collections;

ref class ExaminSheet
{
public:
    ExaminSheet();
    void SetDiscipline(String^);
    //void SetDate(DateTime);
    void AddStudentWithMark(String^, String^);
    Hashtable^ GetMarkList();

private:
    String^ Discipline;
    DateTime^ ExDate;
    System::Collections::Hashtable^ MarkList;
};
```



```

#include "stdafx.h"
#include "ExaminSheet.h"

ExaminSheet::ExaminSheet()
{
    this->MarkList = gcnew Hashtable();
}

void ExaminSheet::SetDiscipline(String^ Name)
{
    this->Discipline = Name;
}

void ExaminSheet::AddStudentWithMark(String^ StudId, String^ Mark)
{
    MarkList->Add(StudId, Mark);
}

Hashtable^ ExaminSheet::GetMarkList()
{
    return MarkList;
}

```

```
#include "Student.h"
#include "ExamSheet.h"

using namespace System;

int main(array<System::String ^> ^args)
{
    //Student X;
    DateTime^ d1 = gcnew DateTime(1996, 02, 1);
    DateTime^ d2 = gcnew DateTime(2015, 9,1);
    String^ s1 = gcnew String( "Иванов И. И. " );
    String^ s2 = gcnew String( "001" );
    Student^ Y = gcnew Student(s1, d1, d2, s2);
    int Age = Y->GetAge();

    ExamSheet^ ESheet = gcnew ExamSheet();
    ESheet->SetDiscipline("Математика");
    ESheet->AddStudentWithMark("Петров П.П.", "отлично");
    ESheet->AddStudentWithMark("Петров П.А.", "удовлетворительно");
    ESheet->AddStudentWithMark(Y->GetName(), "хорошо");

    ExamSheet^ ESheet1 = gcnew ExamSheet();
    ESheet1->SetDiscipline("Физика");
    ESheet1->AddStudentWithMark("Петров П.П.", "хорошо");
    ESheet1->AddStudentWithMark(Y->GetName(), "удовлетворительно");

    //ведомости
    ArrayList^ SetOfSheet = gcnew ArrayList();
    SetOfSheet->Add(ESheet);
    SetOfSheet->Add(ESheet1);
}
```

```
ESheet1->AddStudentWithMark(Y->GetName(), "удовлетворительно");
```

```
//ведомости
```

```
ArrayList^ SetOfSheet = gcnew ArrayList();
```

```
SetOfSheet->Add(ESheet);
```

```
SetOfSheet->Add(ESheet1);
```

```
ArrayList^ Res = Y->GetMarks(SetOfSheet);
```

```
return 0;
```

```
}
```