**O’ZBEKISTON RESPUBLIKASI RAQAMLI TEXNOLOGIYALARI VAZIRLIGI**

## **TOSHKENT AXBOROT TEXNOLOGIYALARI UNIVERSITETI**

## 

## **1-AMALIY ISH**

**FAN:Dasturlash 2-a**

**BAJARDI:GIYOSDDINOV JAVOXIR**

**TEKSHIRDI:** **Baxriddinov Akbar**

TOSHKRNT-2025

Giyosddinov Javoxir 232-Ato

5-Vartiyant

Topshiriq: **.**

**Universitet boshqaruvi**

* **Student** abstrakt klassi (getAverageGrade() metodi bilan).
* **Undergraduate, Postgraduate** undan vorislik oladi.

**University** klassida Student[] massivi saqlanadi.  
**Vazifa:** Talabalar ro‘yxatidan **eng yuqori o‘rtacha bahoga ega talabani** toppish

Dastur\_kodi:

#include <iostream>

#include <iomanip>

#include <string>

using namespace std;

class students{

public:

string ism;

string familya;

float gpa\_rating;

virtual void talaba\_haqida()=0;

virtual void print\_data()=0;

};

class bakalavr:public students{

public:

void talaba\_haqida() override{

cout<<"talabaning ismi >>> ";cin>>ism;

cout<<"talabaning familyasi >>> ";cin>>familya;

cout<<"talabaning gpa bali >>> ";cin>>gpa\_rating;

}

void print\_data() override{

cout<<"ism: "<<ism<<"|familya: "<<familya<<"|gpa\_rating: "<<gpa\_rating<<endl;

}

};

class magistir:public students{

public:

void talaba\_haqida() override{

cout<<"talabaning ismi >>> ";cin>>ism;

cout<<"talabaning familyasi >>> ";cin>>familya;

cout<<"talabaning gpa bali >>> ";cin>>gpa\_rating;

}

void print\_data() override{

cout<<"ism: "<<ism<<"|familya: "<<familya<<"|gpa\_rating: "<<gpa\_rating<<endl;

}

};

students& find\_student(students\* arr[],int N){

students\* best=arr[0];

for(int i=1;i<N;i++){

if(arr[i]->gpa\_rating>best->gpa\_rating){

best=arr[i];

}

}

return \*best;

}

int main(){

int N;

cout<<"nechta magistr va bakalavr talabalarni royhatdan otkazasiz >>> ";

cin>>N;

magistir magistir\_students[N];bakalavr bakalavr\_students[N];

cout<<"-----------magistir studentlarini kiritng!-----------"<<endl;

for(int i=0;i<N;i++){

magistir\_students[i].talaba\_haqida();

}

cout<<"-----------bakalavr studentlarini kiritng!-----------"<<endl;

for(int i=0;i<N;i++){

bakalavr\_students[i].talaba\_haqida();

}

cout<<"---------------barcha talabalar!-----------------------"<<endl;

for(int i=0;i<N;i++){

magistir\_students[i].print\_data();

}

for(int i=0;i<N;i++){

bakalavr\_students[i].print\_data();

}

cout<<"-----------enga katta gpa bal toplagan student-----------\n\n";

students\* all\_student[2\*N];

for(int i=0;i<N;i++){

all\_student[i]=&magistir\_students[i];

all\_student[N+i]=&bakalavr\_students[i];

}

students& best = find\_student(all\_student,2\*N);

best.print\_data();

}

Dastur\_natijasi:



