O‘ZBEKISTON RESPUBLIKASI QURILISH VAZIRLIGI
TOSHKENT ARXITEKTURA – QURILISH INSTITUTI
QURILISHNI BOSHQARISH FAKULTETI
“AXBOROT TEXNOLOGIYALARI” KAFEDRASI

«QURILISHDA AXBOROT TEXNOLOGIYALARI»
fanidan

2-HISOB GRAFIK ISHI

MAVZU: C++ dasturlash tilida masalalarni dasturini tuzish

Bajardi: _____.
Guruh: _____
Tekshirdi: _____

TOSHKENT – **2022**

Reja

Nazariy qism

1 masala(izoh: masala sharti yoziladi)

2 masala(masala sharti yoziladi)

3 masala(masala sharti yoziladi)

Xulosa

1. Butun sonlarga oid masalalar

16.	$a=(1+x^2)\cdot x+\frac{e^x}{2x^2+5}-\frac{x}{y\cdot\cos x^3}$

Dastur kodi

```
#include <iostream>
#include <math.h>
using namespace std;
int main()
{
   float a,x,y;
   cout<<"x ni kiriting x=";
   cin>>x;
   cout<<"y ni kiriting y=";
   cin>>y;
   a=(1+x*x)*x+exp(x)/(2*pow(x,2)+5)-x/(y*cos(pow(x,3)));
   cout<<"Result a="<<a;
   return 0;
}
```

Dastur Natijasi:

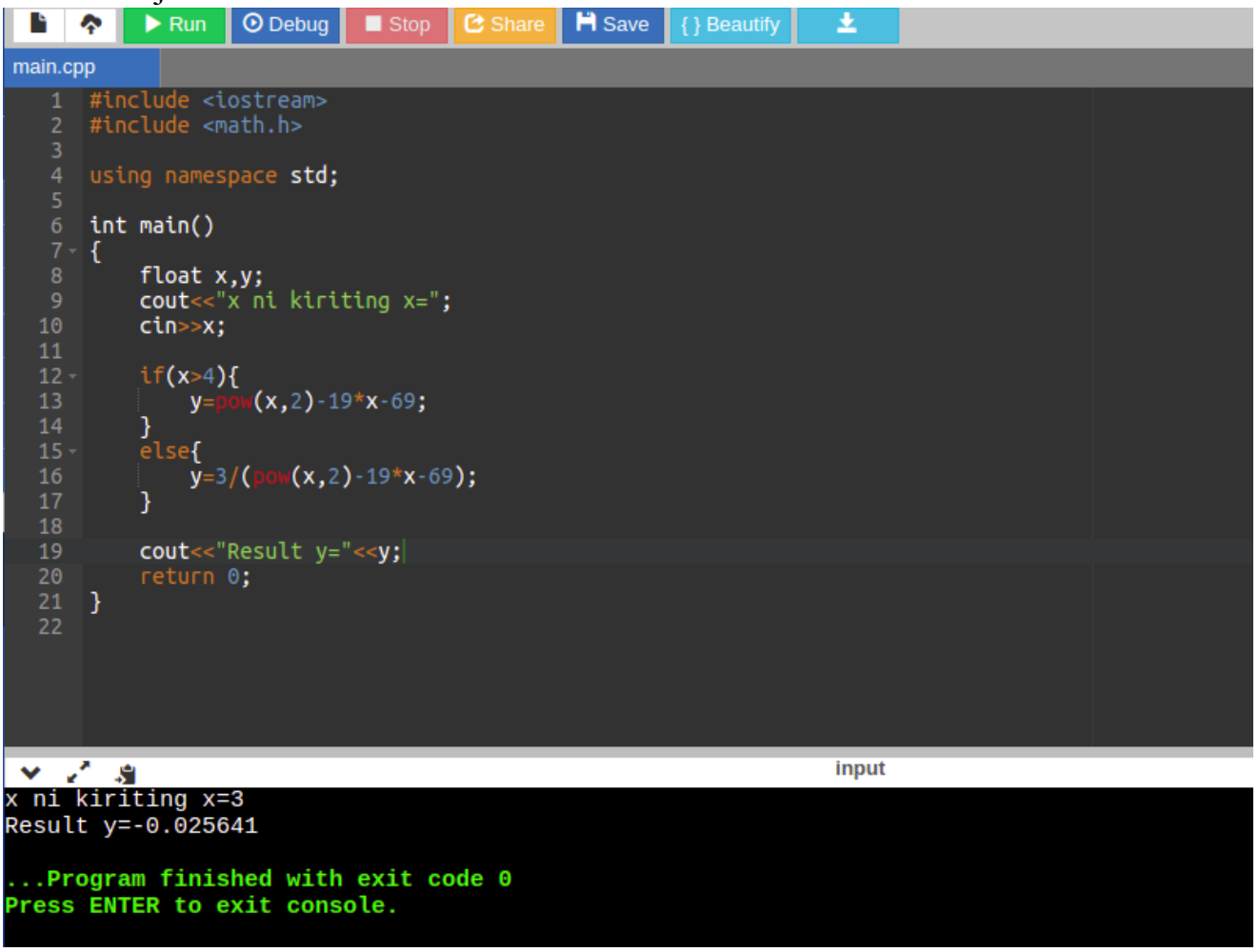
16) $y = \begin{cases} x^2 - 19x - 69, x > 4 \\ 3/(x^2 - 19x - 69), x \le 4 \end{cases}$;

Dastur kodi

```
#include <iostream>
#include <math.h>
using namespace std;
int main()
{
    float x,y;
    cout<<"x ni kiriting x=";
    cin>>x;

    if(x>4){
        y=pow(x,2)-19*x-69;
    }
    else{
        y=3/(pow(x,2)-19*x-69);
    }
    cout<<"Result y="<<y;
    return 0;
}
```

Dastur natijasi:



3.Sikl operatoriga oid masalalar

16	a)	$y = \ln^3\sqrt{x^2+4x+2}$	$X \in [0,1];\ \Delta x = 0,1$
	b)	$\prod_{n=1}^{15} \frac{13}{n^3+5n+7}$	

Dastur kodi

```
#include <iostream>
#include <math.h>
using namespace std;

int main()
{
   float y=0,P=1;
   for (float x = 0; x <=1 ; x+=0.1) {
     y=y+pow(log(pow(x,2)+4*x+2),3);
   }
   for (int n = 1; n <=15 ; n++) {
       P=P*13/(pow(n,3)+5*n+7);
   }
   cout<<"Result 1 y="<<y<<endl;
   cout<<"Result 2 P="<<P<<endl;
   return 0;
}
```

Dastur Natijasi