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

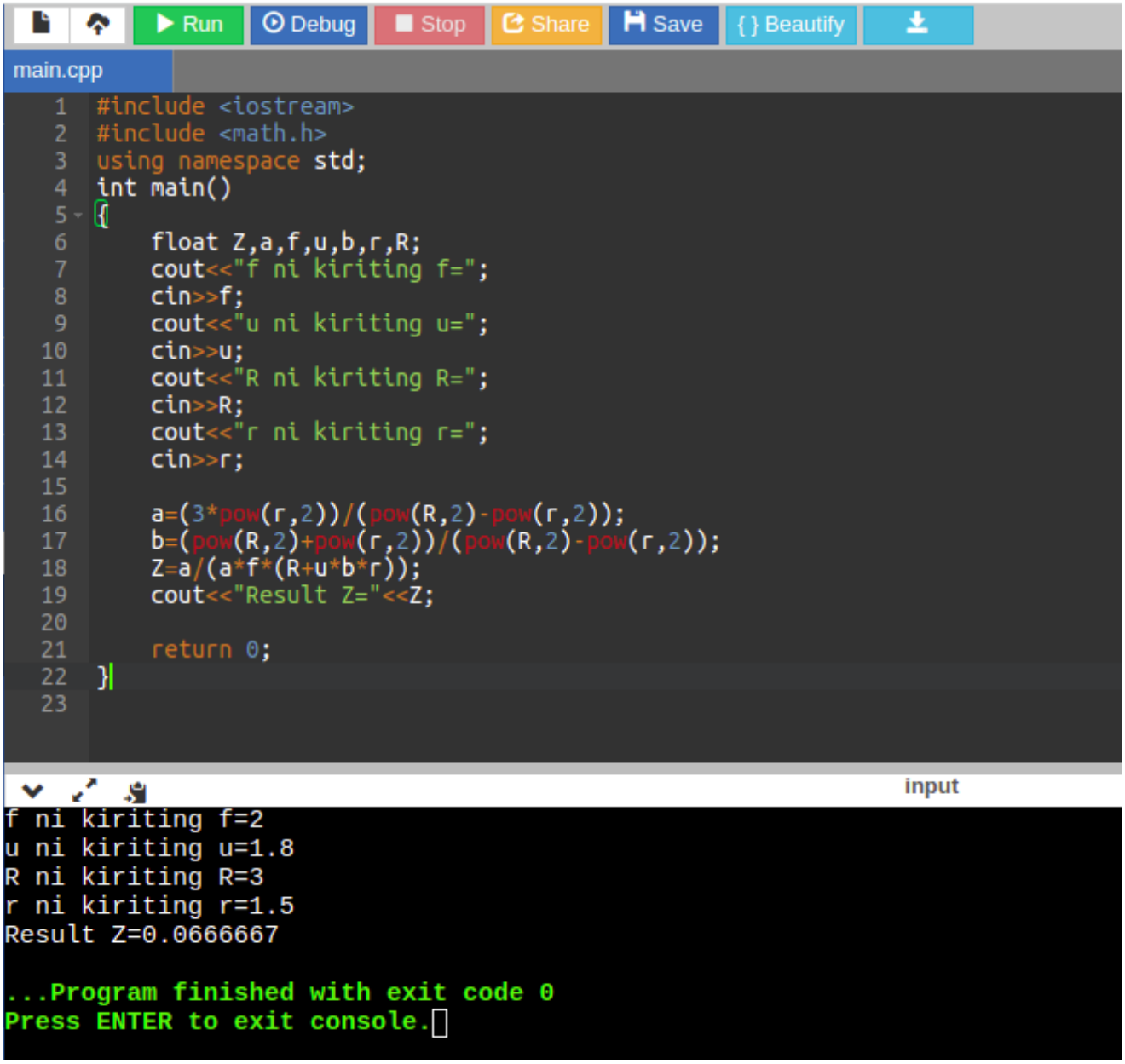
1. Butun sonlarga oid masalalar

$$Z = \frac{a}{a * \varphi * (R + \mu b * r)}; \qquad \text{здесь} \quad a = \frac{3r^2}{R^2 - r^2}, b = \frac{R^2 + r^2}{R^2 - r^2};$$

Dastur kodi

```
#include <iostream>
#include <math.h>
using namespace std;
int main()
{
   float Z,a,f,u,b,r,R;
   cout<<"f ni kiriting f=";
   cin>>f;
   cout<<"u ni kiriting u=";
   cin>>u;
   cout<<"R ni kiriting R=";
   cin>>R;
   cout<<"r ni kiriting r=";
   cin>>r;
   a=(3*pow(r,2))/(pow(R,2)-pow(r,2));
   b=(pow(R,2)+pow(r,2))/(pow(R,2)-pow(r,2));
   Z=a/(a*f*(R+u*b*r));
   cout<<"Result Z="<<Z;
   return 0;
}
```

Dastur Natijasi:



2

$$y=\begin{cases}x^2-7, x\geq -3\\ 56/(x^2-7), x<-3\end{cases}$$

Dastur kodi

```
#include <iostream>
#include <math.h>
using namespace std;
int main()
{
    float x,y;
    cout<<"x ni kiriting x=";
    cin>>x;
    if(x>=3){
        y=pow(x,2)-7;
    }
    else{
        y=56/(pow(x,2)-7);
    }
    cout<<"Result y="<<y;
    return 0;
}
```

Dastur natijasi:

3	$y = 2x3+\sqrt[3]{x+1}$	$X \in [-2;0];\ \Delta x = 0,2$

Dastur kodi

```
#include <iostream>
#include <math.h>
using namespace std;
int main()
{
   float y;
   for(float x=-2;x<=0; x+=0.2){
       y=2*pow(x,3)+pow((x+1),1/3);
   }
   cout<<"Result y="<<y;
   return 0;
}
```

Dastur Natijasi

4 $$y=\prod_{i=1}^{6} b_i^2/x_i$$

```cpp
#include <iostream>
#include <stdlib.h>
#include <time.h>
#include <math.h>
using namespace std;
int main()
{
   srand(time(NULL));
   int b[6],x[6];
   float P=1;
   for(int i=0; i<=5;i++){
      b[i]=rand()%100+1;
      x[i]=rand()%100+1;
      P*=pow(b[i],2)/x[i];
   }
   cout<<"Result P="<<P;
   return 0;
}
```

Dastur natijasi: