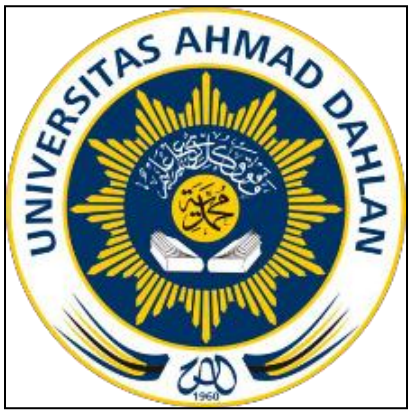
LAPORAN POSTEST

ALGORITMA PEMROGRAMAN



DISUSUN OLEH:

EKO RACHMAT SATRIYO (2100018142)

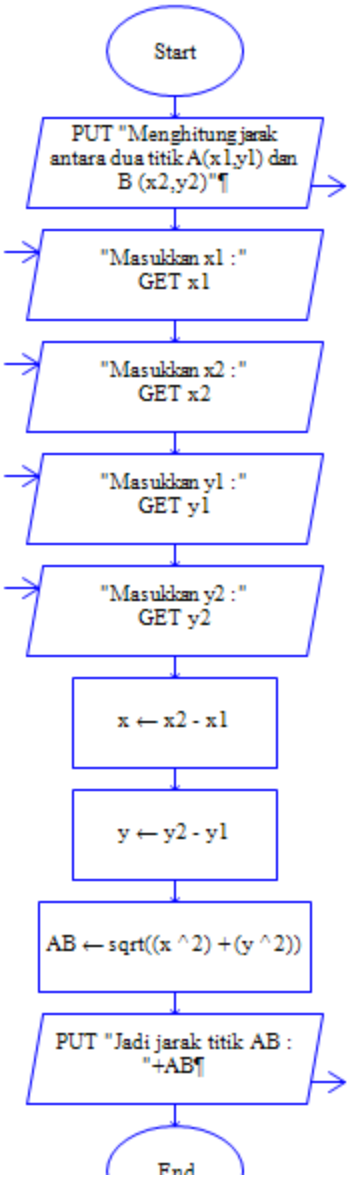
KELAS C

PROGRAM STUDI TEKNIK INFORMATIKA

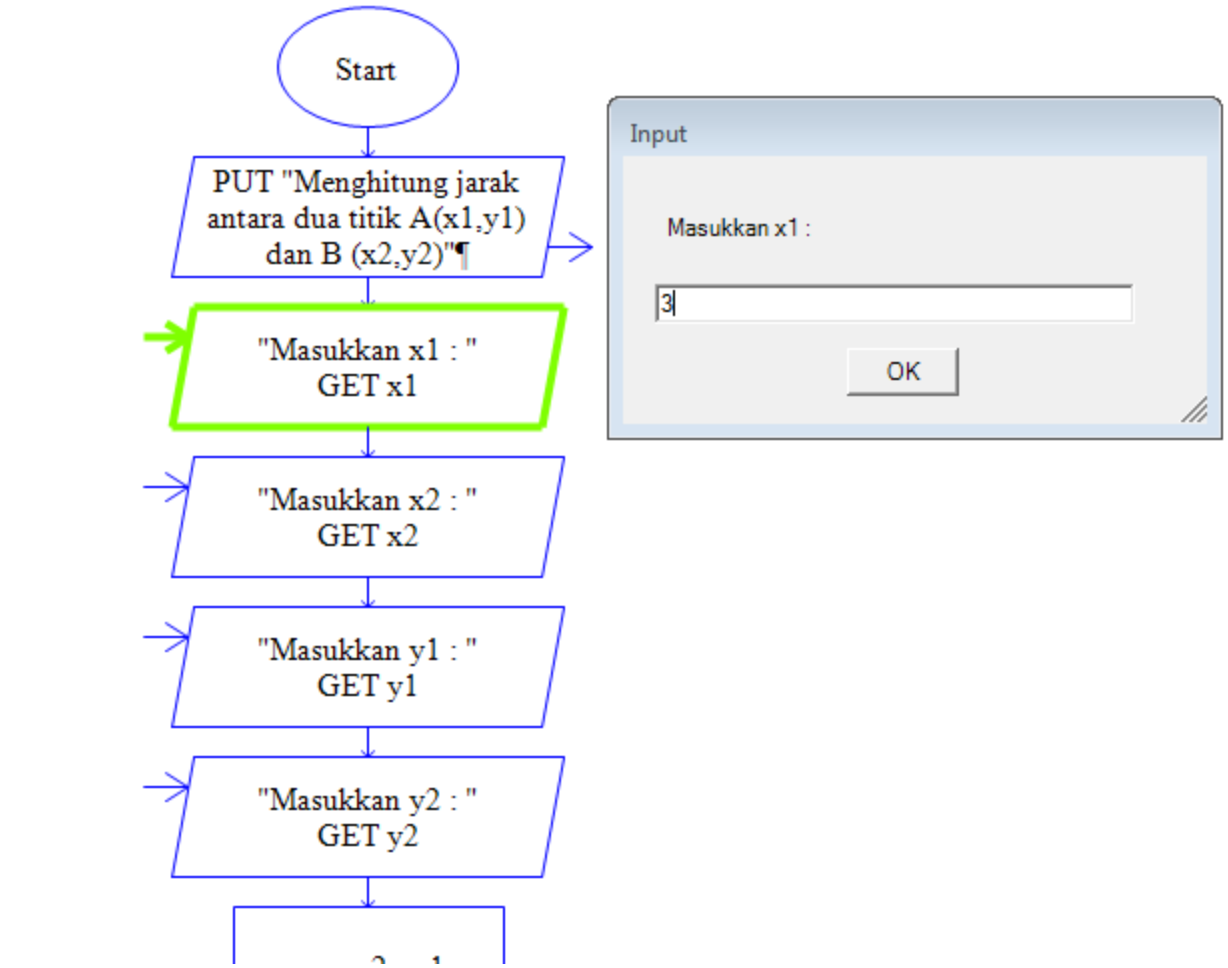
FAKULTAS TEKNOLOGI INDUSTRI

UNIVERSITAS AHMAD DAHLAN

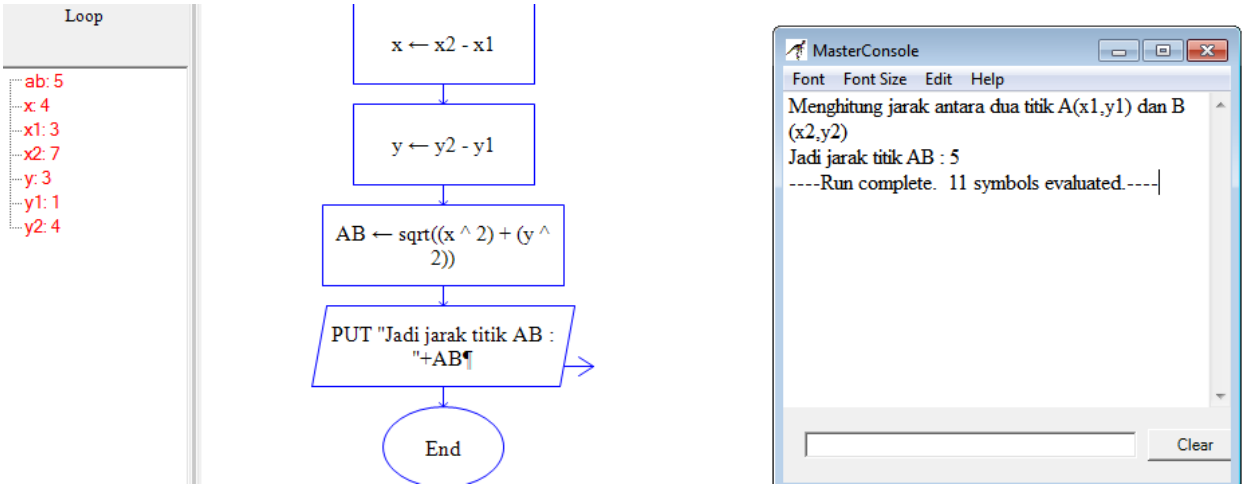
MARET 2022



Membuat flowchart3

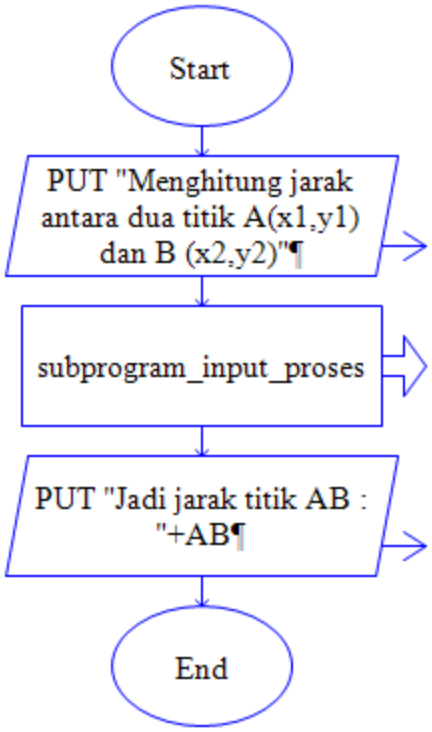


Input nilai x1 hingga y2



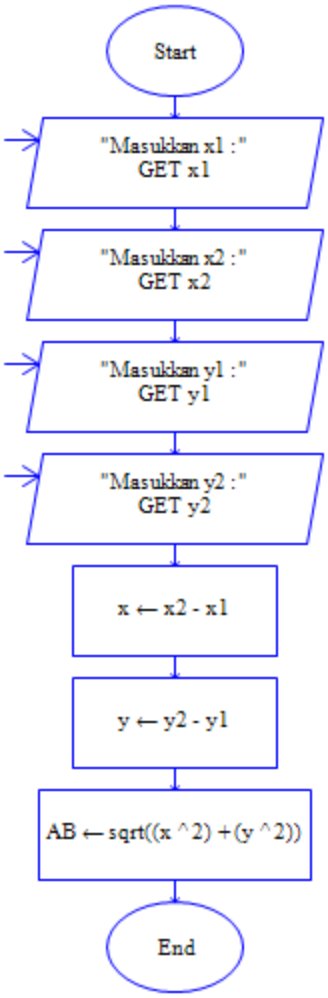
Hasil input dan output

main | subprogram_input_proses

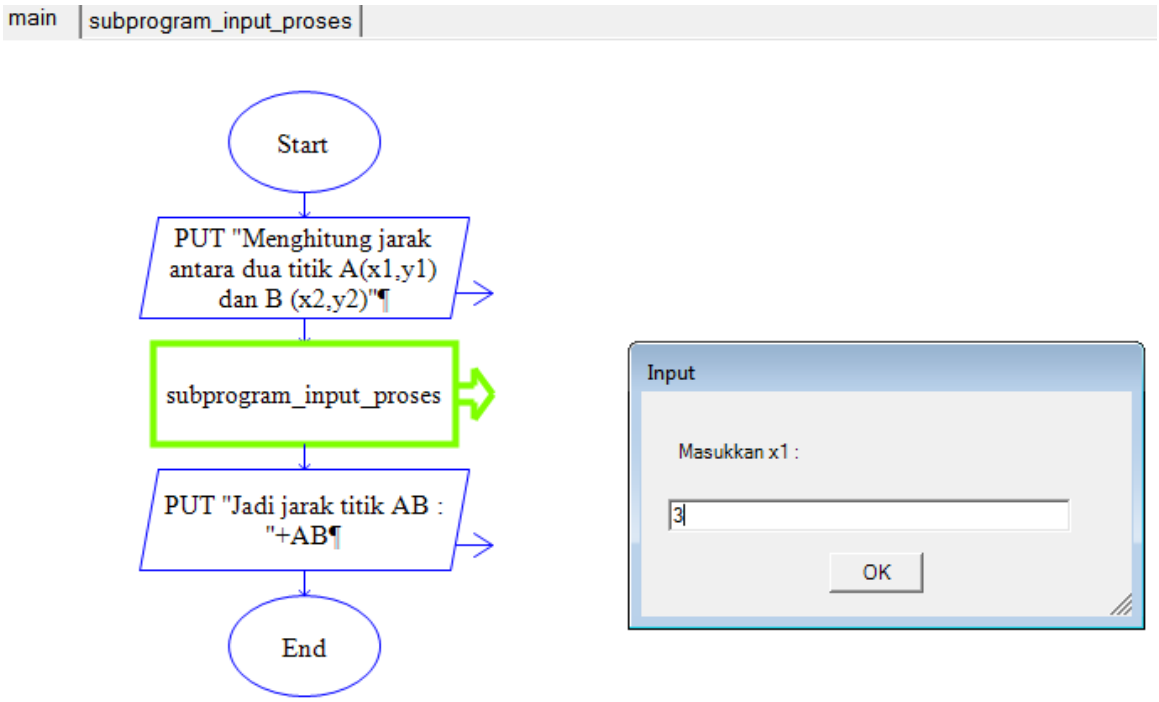


Membuat main

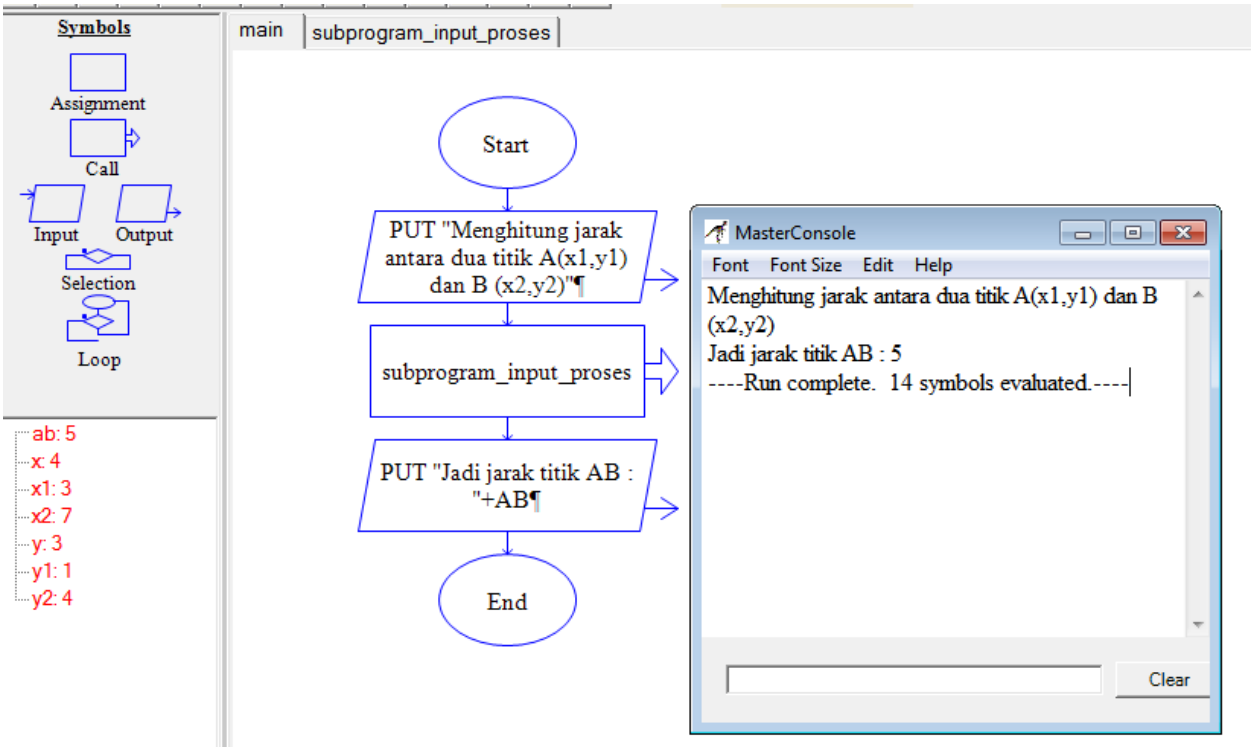
main | subprogram_input_proses



Isi sub program



Menginput nilai



hasil

Post1.cpp

```cpp
#include <iostream>
#include <conio.h>
#include <math.h>
using namespace std;
class Hitung{
    friend ostream& operator<<(ostream&,const Hitung&);
    friend istream& operator>>(istream&,Hitung &);
public :
    Hitung ();
    void hsl(){
        x=x2-x1;
        y=y2-y1;
        AB= sqrt((x*x)+(y*y));
    }
private :
    int x,y,x1,x2,y1,y2,AB;
};
Hitung::Hitung(){
    cout<<"\tProgram Menghitung jarak antara dua titik A(x1,y1) dan B (x2,y2)\n\n";
    cout<<"================================================================================\n\n";
}
istream&operator>>(istream& in,Hitung& masukkan){
    cout<<"Masukkan nilai x1     : ";
    in>>masukkan.x1;
    cout<<"Masukkan nilai x2     : ";
    in>>masukkan.x2;
    cout<<"Masukkan nilai y1     : ";
    in>>masukkan.y1;
    cout<<"Masukkan nilai y2     : ";
    in>>masukkan.y2;
    return in;
}
ostream& operator<<(ostream&out,const Hitung&hasil){
    out<<"=========================\n";
    out<<"Jadi jarak titik AB   : "<<hasil.AB<<endl;
    return out;
}
```

Menuliskan menjadi c++

```
33  ostream& operator<<(ostream&out,const Hitung&hasil){
34      out<<"=========================\n";
35      out<<"Jadi jarak titik AB    : "<<hasil.AB<<endl;
36      return out;
37  }
38  main(){
39      Hitung c;
40      cin>>c;
41      c.hsl();
42      cout<<c;
43      return 0;
44  }
```

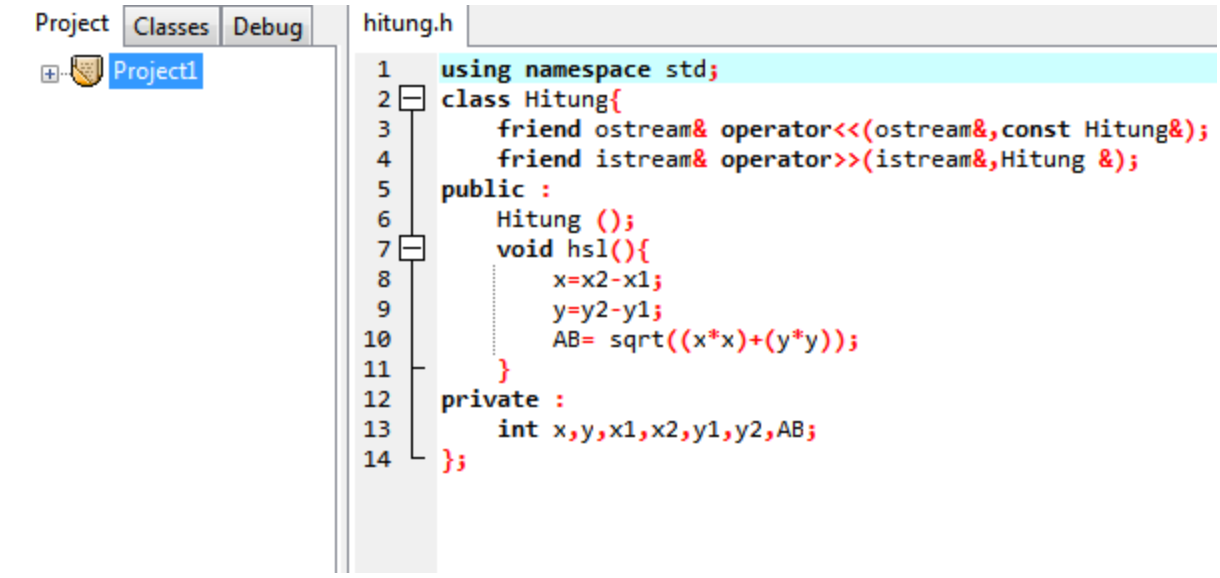
```
E:\KULIAH\SEMUA PRAKTIK II\Alpro\Prak Alpro\1\Kode\Post\Post1.exe
        Program Menghitung jarak antara dua titik A(x1,y1) dan B (x2,y2)

========================================================================

Masukkan nilai x1      : 3
Masukkan nilai x2      : 7
```

Menginput nilai

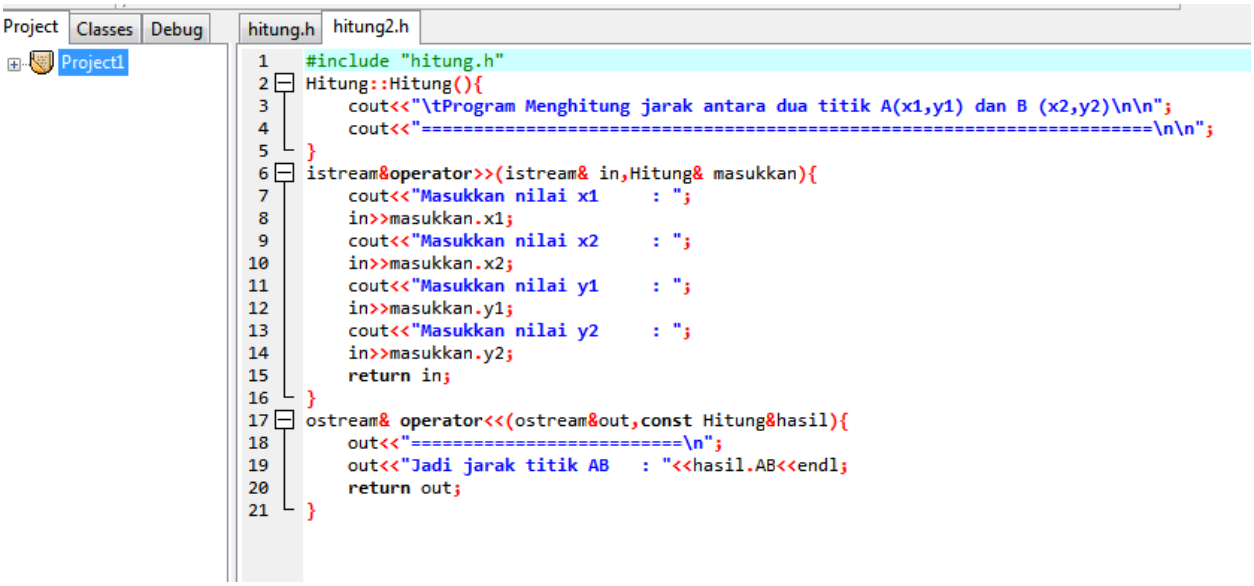
```
38  main(){
39      Hitung c;
40      cin>>c;
41      c.hsl();
42      cout<<c;
43      return 0;
44  }
```

```
E:\KULIAH\SEMUA PRAKTIK II\Alpro\Prak Alpro\1\Kode\Post\Post1.exe
        Program Menghitung jarak antara dua titik A(x1,y1) dan B (x2,y2)

========================================================================

Masukkan nilai x1      : 3
Masukkan nilai x2      : 7
Masukkan nilai y1      : 1
Masukkan nilai y2      : 4
=========================
Jadi jarak titik AB    : 5

--------------------------------
Process exited after 50.3 seconds with return value 0
Press any key to continue . . .
```

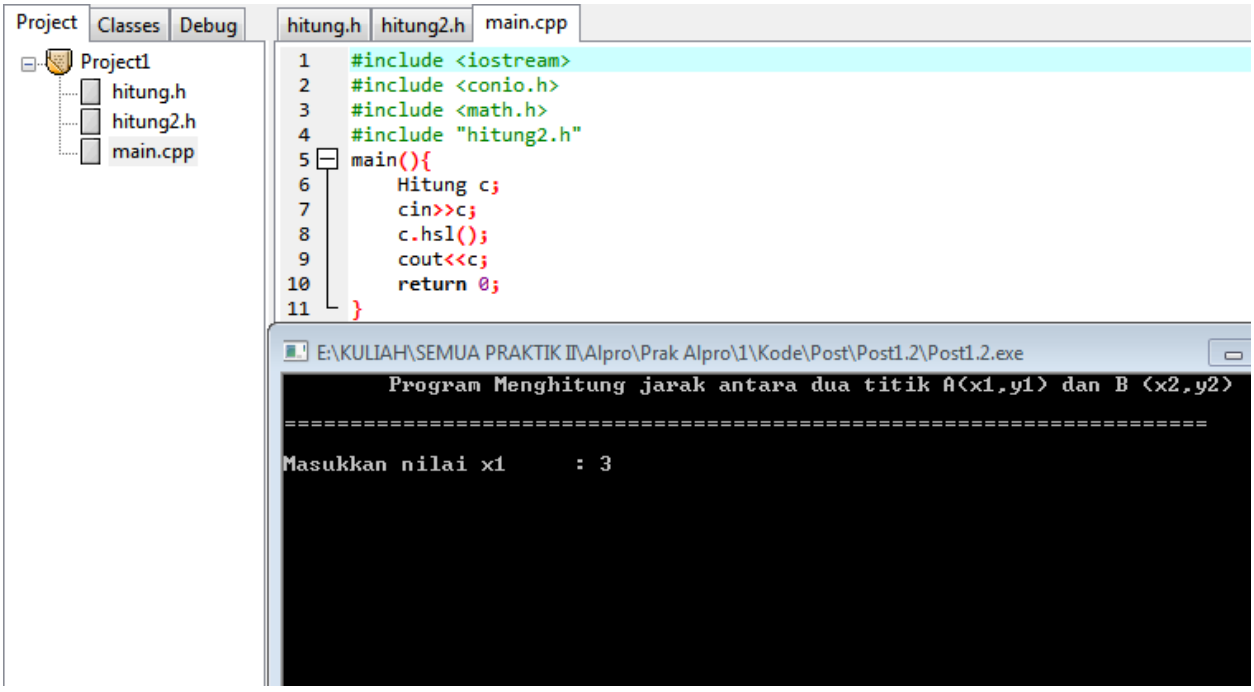
Output



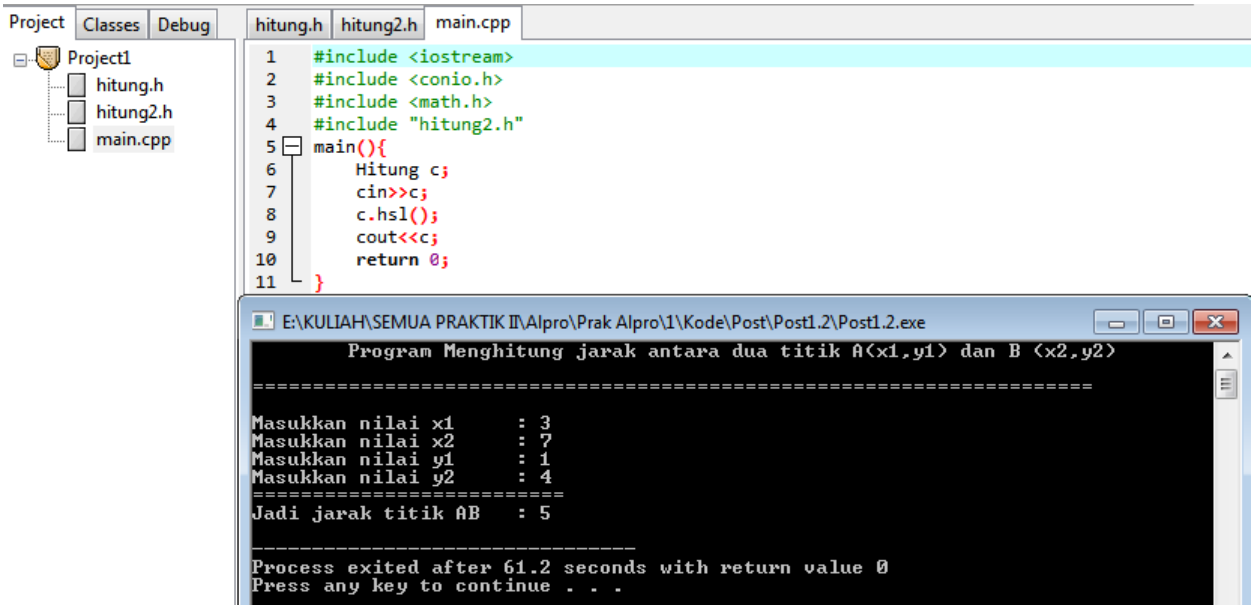
Membuat project baru,menuliskan hitung.h



Dilanjutkan hitung2.h



Membuat main.cpp dan menginputkan nilai



Hasil

Link repo

https://github.com/142Eko/Prak-alpro/tree/master/1/Kode/Post