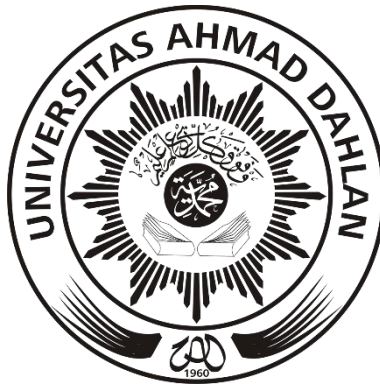


LAPORAN
ALGORITMA PEMORGRAMAN



DISUSUN OLEH
Muhammad Faiz Akbar (2100018361)
SLOT SELASA 13.30 – KELAS G

PROGRAM STUDI INFORMATIKA FAKULTAS
TEKNOLOGI INDUSTRI
UNIVERSITAS AHMAD DAHLAN
TAHUN AJARAN 2021/2022

Screenshot repository hasil Studi Kasus

Dengan nama kelompok :

- Rifal Febiyan
- Arrijal Firmansyah
- Muhammad Faiz Akbar

```
1 #include<iostream>
2 #include<fstream>
3 using namespace std;
4
5
6 main () {
7     int liter;
8     int total;
9     int choice;
10    int pilihan;
11    char nama[999];
12    char jenis[999];
13
14    system("CLS");
15    cout<<"=====\\n";
16    cout<<"      BENDSI\\n";
17    cout<<"    1. Pendisikan\\n";
18    cout<<"=====\\n";
19    cout<<"Pilihlah Menu\\n";
20    cout<<"1) Pilih Jenis Bensin\\n";
21    cout<<"2) Keluar\\n";
22    cout<<"=====\\n";
23    cout<<"Masukkan pilihan menu a. \\n";
24    cin>>choice;
25    cout<<"=====\\n";
26
27    if(choice==1){
28        cout<<"Menu Pilihan<<endl;
29        cout<<"1) Pertama<<endl;
30        cout<<"2) Pertalite<<endl;
31        cin>>pilihan;
32        switch (pilihan)
33        {
34            case 1 :
35                system("CLS");
36                cout<<"Name Pelanggan : ";
37                cin>>nama;
38                cout<<"konfirmasi nama bensin : ";
39                cin>>jenis;
40                cout<<"Masukkan banyak liter : ";
41                cin>>liter;
42                total=0;
43                cout<<"total harga : "<<total;
44                cout<<endl;
45                system("pause");
46                break;
47
48            case 2 :
49                system("CLS");
50                cout<<"Name Pelanggan : ";
51                cin>>nama;
52                cout<<"konfirmasi nama bensin : ";
53                cin>>jenis;
54                cout<<"Masukkan banyak liter : ";
55                cin>>liter;
56                total=0;
57                cout<<"total harga : "<<total;
58                cout<<endl;
59                system("pause");
60                break;
61
62        }
63
64        ofstream nantap;
65        cout<<"=====\\n";
66        cout<<"Struk berhasil dibuat...\\n";
67        cout<<"=====\\n";
68        nantap.open("NANTAPCAKUP.txt",ios::trunc);
69
70        if (nantap.is_open()){
71            nantap<<"Name pelanggan : "<<nama<<endl;
72            nantap<<"Total liter : "<<liter<<endl;
73            nantap<<"Jenis bensin : "<<jenis<<endl;
74            nantap<<"Total harga : "<<total<<endl;
75            nantap.close();
76        }
77
78    }
79    return 0;
80 }
```

LANGKAH PRAKTIKUM 1 x Alpro prak modul.pdf x Menghitung Jarak Antara 2 x History for Praktikum 1/Stu x Manage access x (430) [IU] 'Love poem' x

github.com/rifalfebiyan/rifal2100018345-prac-alpro/commits/master/Praktikum%201/Studi%20Kasus/STUDI%20KASUS%201.cpp

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History for rifal2100018345-prac-alpro / Praktikum 1 / Studi Kasus / STUDI KASUS 1.cpp

Commits on Mar 22, 2022

Update STUDI KASUS 1.cpp Anjellirmansyah committed 37 minutes ago	Verified	7d548f2	Copy icon	Compare icon
Update STUDI KASUS 1.cpp Anjellirmansyah committed 38 minutes ago	Verified	927d5e9	Copy icon	Compare icon
Update STUDI KASUS 1.cpp FaizAkbar26 committed 1 hour ago	Verified	df5087c	Copy icon	Compare icon
Update STUDI KASUS 1.cpp FaizAkbar26 committed 2 hours ago	Verified	2c02594	Copy icon	Compare icon
Update STUDI KASUS 1.cpp FaizAkbar26 committed 2 hours ago	Verified	af2e48f	Copy icon	Compare icon
Update STUDI KASUS 1.cpp FaizAkbar26 committed 2 hours ago	Verified	3cc9477	Copy icon	Compare icon
update rifalfebiyan committed 2 hours ago		5880127	Copy icon	Compare icon

Newer Older

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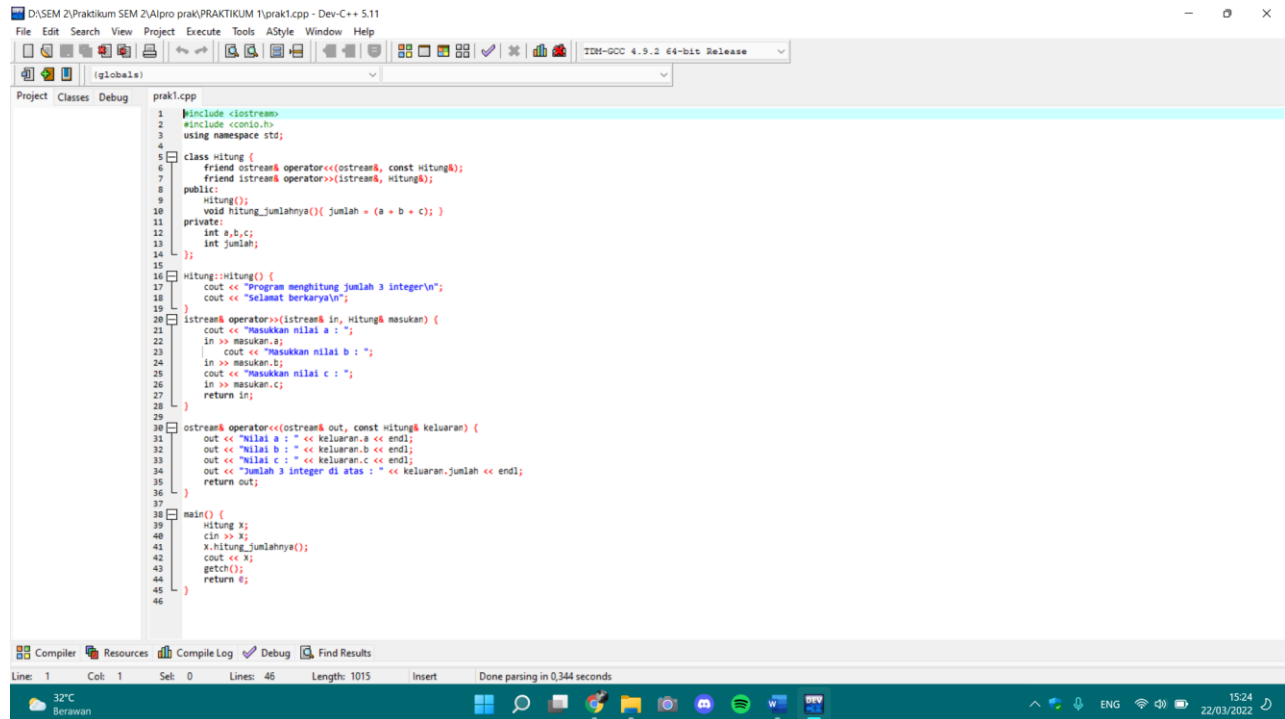
31°C Hujan ringan 19:25 22/03/2022

Berikut adalah link repository : <https://github.com/rifalfebiyan/rifal2100018345-prac-alpro/blob/master/Praktikum%201/Studi%20Kasus/STUDI%20KASUS%201.cpp>

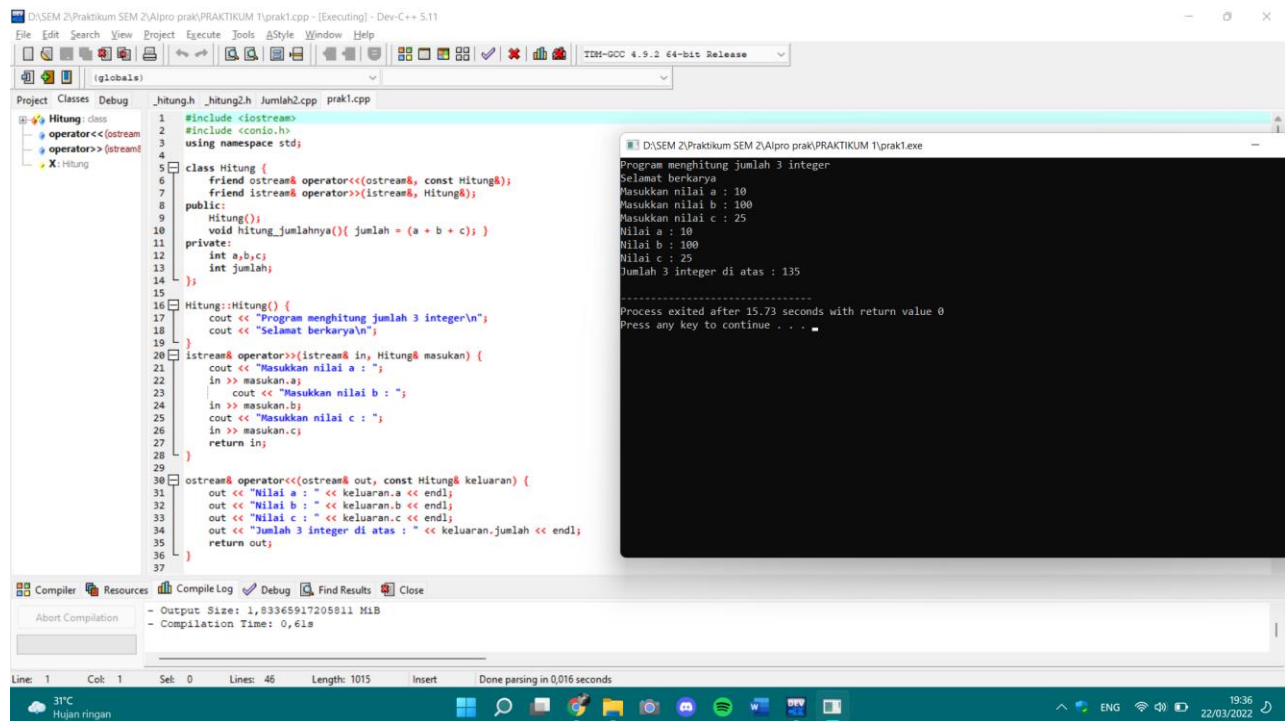
PRAKTIKUM 1 SEKUEN

LANGKAH-LANGKAH PRAKTIKUM

Ketik dan jalankan program Prak1.cpp dibawah ini.



```
1 #include <iostream>
2 #include <conio.h>
3 using namespace std;
4
5 class Hitung {
6     friend ostream& operator<<(ostream&, const Hitung&);
7     friend istream& operator>>(istream&, Hitung&);
8 public:
9     Hitung();
10    void hitung_jumlahnya(){ jumlah = (a + b + c); }
11 private:
12    int a,b,c;
13    int jumlah;
14 };
15
16 Hitung::Hitung() {
17     cout << "Program menghitung jumlah 3 integer\n";
18     cout << "Selamat berkarya\n";
19 }
20 istream& operator>>(istream& in, Hitung& masukan) {
21     cout << "Masukkan nilai a : ";
22     in >> masukan.a;
23     cout << "Masukkan nilai b : ";
24     in >> masukan.b;
25     cout << "Masukkan nilai c : ";
26     in >> masukan.c;
27     return in;
28 }
29 ostream& operator<<(ostream& out, const Hitung& keluaran) {
30     out << "Nilai a : " << keluaran.a << endl;
31     out << "Nilai b : " << keluaran.b << endl;
32     out << "Nilai c : " << keluaran.c << endl;
33     out << "Jumlah 3 integer di atas : " << keluaran.jumlah << endl;
34     return out;
35 }
36
37 main() {
38     Hitung x;
39     cin >> x;
40     x.hitung_jumlahnya();
41     cout << x;
42     getch();
43     return 0;
44 }
```

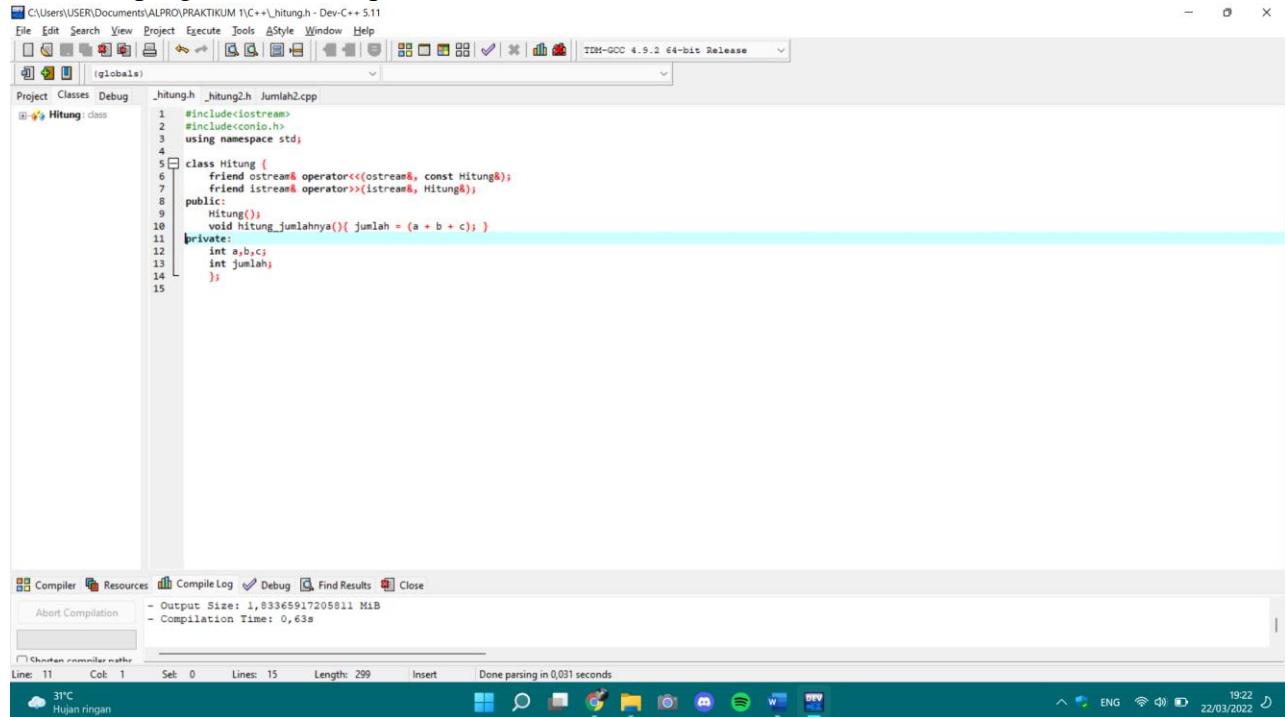


```
1 #include <iostream>
2 #include <conio.h>
3 using namespace std;
4
5 class Hitung {
6     friend ostream& operator<<(ostream&, const Hitung&);
7     friend istream& operator>>(istream&, Hitung&);
8 public:
9     Hitung();
10    void hitung_jumlahnya(){ jumlah = (a + b + c); }
11 private:
12    int a,b,c;
13    int jumlah;
14 };
15
16 Hitung::Hitung() {
17     cout << "Program menghitung jumlah 3 integer\n";
18     cout << "Selamat berkarya\n";
19 }
20 istream& operator>>(istream& in, Hitung& masukan) {
21     cout << "Masukkan nilai a : ";
22     in >> masukan.a;
23     cout << "Masukkan nilai b : ";
24     in >> masukan.b;
25     cout << "Masukkan nilai c : ";
26     in >> masukan.c;
27     return in;
28 }
29 ostream& operator<<(ostream& out, const Hitung& keluaran) {
30     out << "Nilai a : " << keluaran.a << endl;
31     out << "Nilai b : " << keluaran.b << endl;
32     out << "Nilai c : " << keluaran.c << endl;
33     out << "Jumlah 3 integer di atas : " << keluaran.jumlah << endl;
34     return out;
35 }
36
37 main() {
38     Hitung x;
39     cin >> x;
40     x.hitung_jumlahnya();
41     cout << x;
42     getch();
43     return 0;
44 }
```

Program menghitung jumlah 3 integer
Selamat berkarya
Masukkan nilai a : 10
Masukkan nilai b : 100
Masukkan nilai c : 25
Nilai a : 10
Nilai b : 100
Nilai c : 25
Jumlah 3 integer di atas : 135

Process exited after 15.73 seconds with return value 0
Press any key to continue . . .

1. Buat workspace baru → namakan jumlah2.
2. Kemudian buat header file dengan memilih menu File | New → pilih Files | C/C++ header file. Beri nama `_hitung.h` yang nantinya berisi definisi class.
3. Ketik program berikut :`'p0`

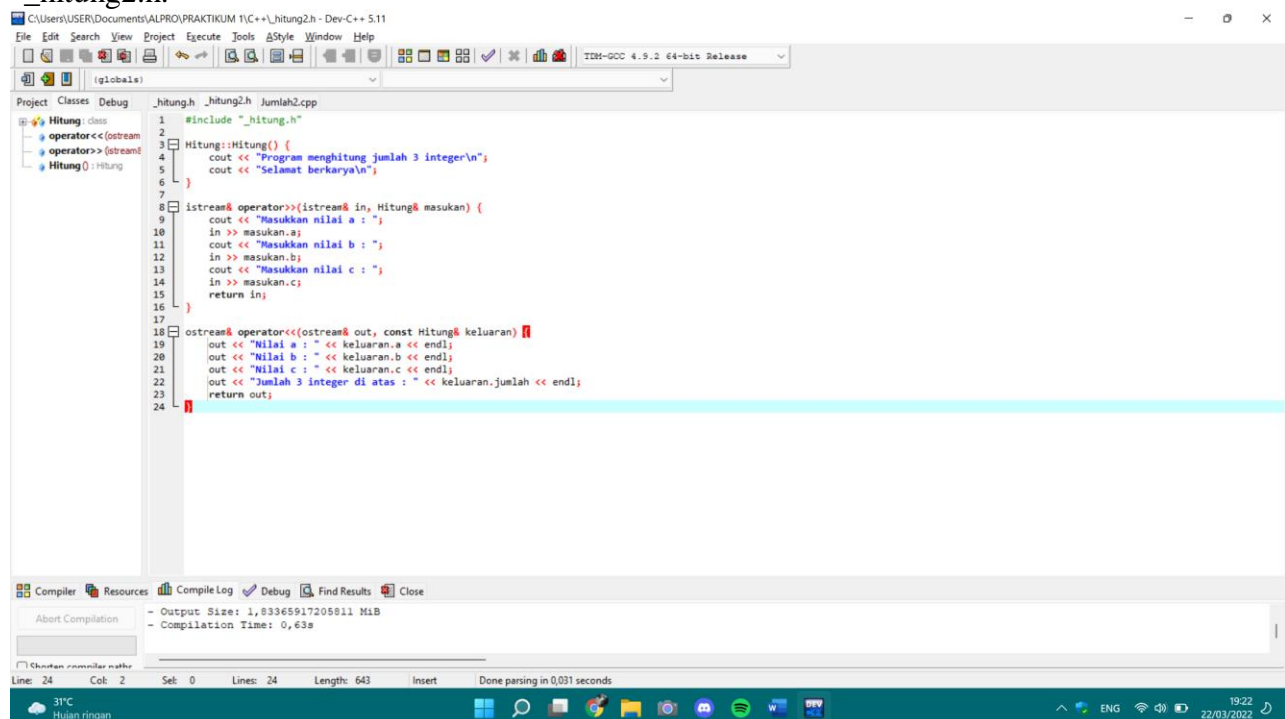


The screenshot shows the Dev-C++ IDE with a project named 'jumlah2'. The file explorer on the left shows two files: `_hitung.h` and `_hitung2.cpp`. The `_hitung2.cpp` file is open, showing the following code:

```
1 #include <iostream>
2 #include <conio.h>
3 using namespace std;
4
5 class Hitung {
6     friend ostream& operator<<(ostream&, const Hitung&);
7     friend istream& operator>>(istream&, Hitung&);
8 public:
9     Hitung();
10    void hitung_jumlahnya(){ jumlah = (a + b + c); }
11 private:
12    int a,b,c;
13    int jumlah;
14 };
15
```

The compiler output at the bottom shows: Output Size: 1,83365917205811 MiB, Compilation Time: 0,63s.

Kemudian, dengan cara yang sama buat file header yang berisi implementasi class, beri nama `_hitung2.h`.



The screenshot shows the Dev-C++ IDE with the same project 'jumlah2'. The file explorer on the left shows three files: `_hitung.h`, `_hitung2.h`, and `_hitung2.cpp`. The `_hitung2.h` file is open, showing the following code:

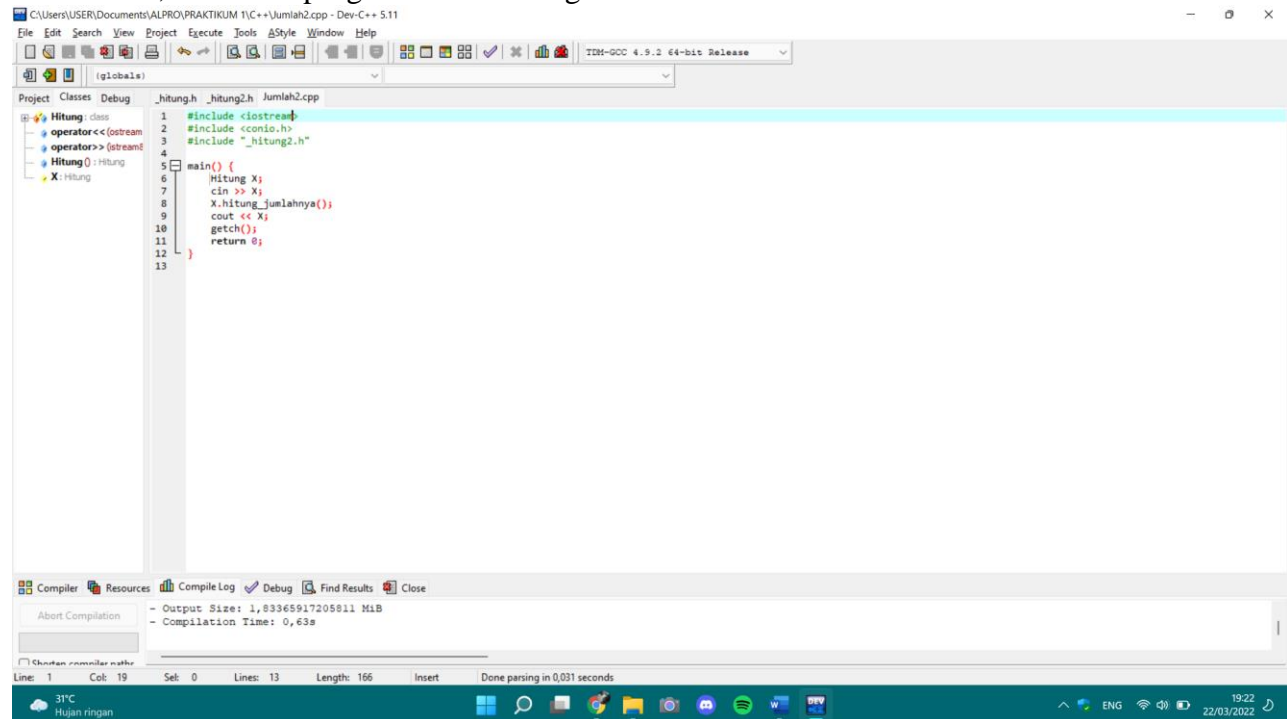
```
1 #include "_hitung.h"
2
3 Hitung::Hitung() {
4     cout << "Program menghitung jumlah 3 integer\n";
5     cout << "Selamat berkarya\n";
6 }
7
8 istream& operator>>(istream& in, Hitung& masukan) {
9     cout << "Masukkan nilai a : ";
10    in >> masukan.a;
11    cout << "Masukkan nilai b : ";
12    in >> masukan.b;
13    cout << "Masukkan nilai c : ";
14    in >> masukan.c;
15    return in;
16 }
17
18 ostream& operator<<(ostream& out, const Hitung& keluaran) {
19     out << "Nilai a : " << keluaran.a << endl;
20     out << "Nilai b : " << keluaran.b << endl;
21     out << "Nilai c : " << keluaran.c << endl;
22     out << "Jumlah 3 Integer di atas : " << keluaran.jumlah << endl;
23     return out;
24 }

```

The compiler output at the bottom shows: Output Size: 1,83365917205811 MiB, Compilation Time: 0,63s.

Perhatikan dalam jendela Workspace, anda telah mempunyai 2 file dalam tab Header Files

4. Langkah terakhir, membuat file utama yang berisi fungsi main. Pilih File | New | Files → C++ Source File, lalu ketik program berikut dengan nama Jumlah2



Setelah selesai, kompilasilah menggunakan Ctrl-F5.

