

# TUGAS PENDAHULUAN

## STRUKTUR DATA

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KELAS: SE 07 02

1. )

```
1 #include <iostream>
2
3 using namespace std;
4
5 int main(){
6     string Nama, Nim;
7     cout << "Siapa Nama Anda? ";
8     cin >> Nama;
9     cout << "Berapa Nim Anda? ";
10    cin >> Nim;
11    cout << "Ammar:" << Nama << endl;
12    cout << "23111040171:" << Nim << endl;
13    return 0;
14 }
15
16
```

Outputnya:

```
"C:\C++ PEMROGRAMAN\TU" X + v
Siapa Nama Anda? Ammar
Berapa Nim Anda? 2311104071
Ammar:Ammar
23111040171:2311104071

Process returned 0 (0x0)   execution time : 7.974 s
Press any key to continue.
```

2. )

```
1 #include <iostream>
2
3 using namespace std;
4
5 int main() {
6     int bil1 = 3, bil2 = 4, hasil1;
7     float bil3 = 3.0, bil4 = 4.0, hasil2;
8
9     hasil1 = bil1 + bil2;
10    cout << hasil1 << endl;
11    hasil1 = bil1 - bil2;
12    cout << hasil1 << endl;
13    hasil1 = bil1 * bil2;
14    cout << hasil1 << endl;
15    hasil1 = bil1 / bil2; // integer division
16    cout << hasil1 << endl;
17    hasil1 = bil2 / bil1; // integer division
18    cout << hasil1 << endl;
19    hasil1 = bil1 % bil2; // modulo
20    cout << hasil1 << endl;
21    hasil1 = bil2 % bil1; // modulo
22    cout << hasil1 << endl;
23    hasil2 = bil3 / bil4;
24    cout << hasil2 << endl;
25
26    return 0;
27 }
28
```

Outputnya:

```
"C:\C++ PEMROGRAMAN\TU" x + v
7
-1
12
0
1
3
1
0.75

Process returned 0 (0x0)   execution time : 0.027 s
Press any key to continue.
```

3. )

```
start here x main.cpp x
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int bil1 = 2, bil2 = 3, hasil;
6
7      hasil = bil1 > bil2;
8      cout << "Hasil bil1 > bil2: " << hasil << endl;
9
10     hasil = bil1 >= bil2;
11     cout << "Hasil bil1 >= bil2: " << hasil << endl;
12
13     hasil = bil1 < bil2;
14     cout << "Hasil bil1 < bil2: " << hasil << endl;
15
16     hasil = bil1 <= bil2;
17     cout << "Hasil bil1 <= bil2: " << hasil << endl;
18
19     hasil = bil1 == bil2;
20     cout << "Hasil bil1 == bil2: " << hasil << endl;
21
22     hasil = bil1 != bil2;
23     cout << "Hasil bil1 != bil2: " << hasil << endl;
24
25     return 0;
26 }
27
```

Outputnya:

```
"C:\C++ PEMROGRAMAN\TU" x + v
Hasil bil1 > bil2: 0
Hasil bil1 >= bil2: 0
Hasil bil1 < bil2: 1
Hasil bil1 <= bil2: 1
Hasil bil1 == bil2: 0
Hasil bil1 != bil2: 1

Process returned 0 (0x0)   execution time : 0.026 s
Press any key to continue.
```

4. )

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int bil1 = 2, bil2 = 3, hasil;
6
7     hasil = bil1 <= bil2 and bil1 < bil2;
8     cout << hasil << endl;
9
10    hasil = bil1 >= bil2 or bil1 < bil2;
11    cout << hasil << endl;
12
13    hasil = not(bil1 >= bil2) or bil1 < bil2;
14    cout << hasil << endl;
15
16    return 0;
17 }
18
```

Outputnya:

```
"C:\C++ PEMROGRAMAN\TU" x + v
1
1
1
Process returned 0 (0x0)   execution time : 0.028 s
Press any key to continue.
|
```

5. )

```
Start here ^ main.cpp ^ main.cpp ^ main.cpp ^
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int nilai;
6     cin >> nilai;
7
8     if (nilai > 80) {
9         cout << "A" << endl;
10    } else {
11        cout << "Bukan A" << endl;
12    }
13
14    return 0;
15 }
16
```

Outputnya:

```
"C:\C++ PEMROGRAMAN\TU" x + v
79
Bukan A

Process returned 0 (0x0)   execution time : 2.907 s
Press any key to continue.
|
```

```
"C:\C++ PEMROGRAMAN\TU" x + v
80
Bukan A

Process returned 0 (0x0)   execution time : 2.160 s
Press any key to continue.
|
```

```
"C:\C++ PEMROGRAMAN\TU" x + v
81
A

Process returned 0 (0x0)   execution time : 4.776 s
Press any key to continue.
|
```

6. )

```
start here x main.cpp x main.cpp x main.cpp x main.cpp x
1  #include <iostream>
2
3  using namespace std;
4
5  int main() {
6      int a, b, bilangan;
7
8      cout << "Masukan batas bawah: ";
9      cin >> a;
10     cout << "Masukan batas atas: ";
11     cin >> b;
12
13     for (bilangan = a; bilangan <= b; bilangan++) {
14         cout << "Bilangan " << bilangan << endl;
15     }
16
17     return 0;
18 }
19
```

Output:

```
"C:\C++ PEMROGRAMAN\TU" X + v
Masukan batas bawah: 1
Masukan batas atas: 10
Bilangan 1
Bilangan 2
Bilangan 3
Bilangan 4
Bilangan 5
Bilangan 6
Bilangan 7
Bilangan 8
Bilangan 9
Bilangan 10

Process returned 0 (0x0)   execution time : 4.766 s
Press any key to continue.
```

7. )

```
Start here X main.cpp X main.cpp X main.cpp X main.cpp X main.cpp X
1  #include <iostream>
2
3  using namespace std;
4
5  int main() {
6      int bilangan, asli, jumlah;
7
8      cout << "Masukkan bilangan asli: ";
9      cin >> asli;
10
11     bilangan = 1;
12     jumlah = 0;
13     while (bilangan <= asli) {
14         if (bilangan % 2 == 0) {
15             jumlah += bilangan;
16         }
17         bilangan++;
18     }
19
20     cout << "Jumlah bilangan genap: " << jumlah << endl;
21     return 0;
22 }
23
```

Output:

```
"C:\C++ PEMROGRAMAN\TU" X + v
Masukkan bilangan asli: 10
Jumlah bilangan genap: 30

Process returned 0 (0x0)   execution time : 12.528 s
Press any key to continue.
```