Tugas Pendahuluan Modul 1 – Struktur Data

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Kelas : IT - 47 - 04

1. (Input/Output) A dan B

```
tpmodul.cpp X strukdat\main.cpp X
         1
               #include <iostream>
         3
              using namespace std;
         4
             int main(){
         5
         6
                  string nama, nim;
                  cout << "Siapa nama anda? ";
         8
                  cin >> nama;
                  cout << "Berapa nim anda? ";
         9
                  cin >> nim;
        10
        11
                  cout << "Nama saya:" << nama << endl;
                  cout << "NIM saya:" << nim << endl;</pre>
        12
        13
        14
        15
    D:\strukdat\strukdat\bin\Debug\strukdat.exe
                                                                                   Siapa nama anda? Nabiel_Muhamad_Irfani
   Berapa nim anda? 103032330140
Nama saya:Nabiel_Muhamad_Irfani
   NIM saya:103032330140
   Process returned 0 (0x0) execution time : 12.796 s
   Press any key to continue.
modulicpp A struktati/mam.cpp A
   1
          #include <iostream>
   3
          using namespace std;
   5
        int main(){
   6
             string nama, nim;
             cout << "Siapa nama anda? ";
   7
   8
             cin >> nama;
             cout << "Berapa nim anda? ";</pre>
   9
   10
              cin >> nim;
              cout << "Nama saya:" << nama << endl;
  11
              cout << "NIM saya:" << nim << endl;
   12
   13
              return 0;
   14
   15
                                                                                 Select D:\strukdat\strukdat\bin\Debug\strukdat.exe
   Siapa nama anda? Nabiel
   Berapa nim anda? 103032330140
   Nama saya:Nabiel
   NIM saya:103032330140
   Process returned 0 (0x0)
                               execution time : 6.674 s
   Press any key to continue.
```

2. (Operasi Aritmatika)

```
nodul.cpp X strukdat\main.cpp X
   1
          #include <iostream>
   2
   3
         using namespace std;
   4
   5
        6
             int bill = 3, bil2 = 4, hasill;
   7
              float bil3 = 3.0, bil4 = 4.0, hasil2;
   8
              hasil1 = bil1 + bil2;
   9
              cout << hasill << endl;</pre>
  10
              hasill = bill - bil2;
  11
              cout << hasil1 << endl;</pre>
  12
              hasil1 = bil1 * bil2;
  13
              cout << hasill << endl;
  14
              hasil1 = bil1 / bil2;
  15
              cout << hasil1 << endl;
              hasil1 = bil2 / bill;
  16
  17
              cout << hasil1 << endl;</pre>
              hasill = bill % bil2;
  18
  19
              cout << hasill << endl;</pre>
              hasill = bil2 % bill;
  20
  21
              cout << hasill << endl;</pre>
  22
              hasi12 = bi13 / bi14;
  23
              cout << hasil2 << endl;
  24
              return 0;
  25
  26
                                                                                  D:\strukdat\strukdat\bin\Debug\strukdat.exe
                                                                                         ×
          12
0
          0.75
          Process returned 0 (0x0)
                                       execution time : 0.019 s
          Press any key to continue.
```

3. (Operasi Perbandingan)

```
modul.cpp X strukdat\main.cpp X
    1
          #include <iostream>
    2
    3
          using namespace std;
    4
        int main(){
    5
              int bill = 2, bil2 = 3, hasil;
    6
    7
              hasil = bill > bil2;
    8
              cout << hasil << endl;</pre>
    9
              hasil = bill >= bil2;
   10
              cout << hasil << endl;
  11
              hasil = bill < bil2;
  12
              cout << hasil << endl;
   13
              hasil = bill <= bil2;
   14
              cout << hasil << endl;
  15
              hasil = bill == bil2;
  16
              cout << hasil << endl;
              hasil = bill != bil2;
  17
  18
              cout << hasil << endl;
  19
              return 0;
  20
  21
                                                                         D:\strukdat\strukdat\bin\Debug\strukdat.exe
         Process returned 0 (0x0)
                                     execution time : 0.039 s
         Press any key to continue.
```

4. (Operasi Logika)

```
modul.cpp × strukdat\main.cpp ×
   1
          #include <iostream>
   2
   3
          using namespace std;
   4
        int main() {
   5
   6
              int bil1 = 2, bil2 = 3, hasil;
              hasil = bill <= bil2 and bill < bil2;
   7
   8
              cout << hasil << endl;</pre>
   9
              hasil = bill >= bil2 or bil1 < bil2;
  10
              cout << hasil << endl;</pre>
  11
              hasil = not(bill >= bil2) or bill < bil2;
  12
              cout << hasil << endl;
  13
              return 0;
  14
  15
       ■ D:\strukdat\strukdat\bin\Debug\strukdat.exe
      Process returned 0 (0x0)
                                   execution time : 0.038 s
       Press any key to continue.
```

5. (Percabangan If – Else)

```
nodul.cpp X strukdat\main.cpp X
   1
         #include <iostream>
   2
   3
         using namespace std;
   4
        int main() {
   5
             int nilai;
   6
   7
             cin >> nilai;
   8
             if (nilai > 80) {
                  cout << "A" << endl;</pre>
   9
  10
              } else {
  11
                  cout << "Bukan A" << endl;
  12
  13
              return 0;
  14
  15
                                                                                     D:\strukdat\strukdat\bin\Debug\strukdat.exe
       Bukan A
       Process returned 0 (0x0)
                                   execution time : 2.871 s
       Press any key to continue.
pmodul.cpp X strukdat\main.cpp X
     1
           #include <iostream>
    2
           using namespace std;
    3
     4
         int main() {
     5
               int nilai;
     6
               cin >> nilai;
    8
               if (nilai > 80) {
                   cout << "A" << endl;
     9
    10
               } else {
    11
                   cout << "Bukan A" << endl;
    12
    13
               return 0;
           }
   14
   15
          ■ D:\strukdat\strukdat\bin\Debug\strukdat.exe
                                                                        80
         Bukan A
         Process returned 0 (0x0)
                                      execution time : 2.422 s
         Press any key to continue.
```

```
iodul.cpp X strukdat\main.cpp X
   1
         #include <iostream>
  2
  3
         using namespace std;
   4
   5
       int main() {
   6
             int nilai;
   7
             cin >> nilai;
   8
             if (nilai > 80) {
                 cout << "A" << endl;
  9
  10
             } else {
  11
                 cout << "Bukan A" << endl;
  12
  13
             return 0;
         }
  15
                                                                        ■ D:\strukdat\strukdat\bin\Debug\strukdat.exe
                                                                              ×
      81
                                   execution time : 1.736 s
      Process returned 0 (0x0)
      Press any key to continue.
```

6. (Perulangan For-To-Do)

```
omodul.cpp X strukdat\main.cpp X
    1
           #include <iostream>
    2
    3
           using namespace std;
    4
         □int main(){
    5
              int a, b, bilangan;
    6
               cout << "Masukan batas bawah: ";</pre>
    7
    8
               cin >> a;
    9
               cout << "Masukan batas atas: ";
   10
               cin >> b;
   11
               for (bilangan = a; bilangan <= b; bilangan++) {</pre>
   12
                   cout << "Bilangan " << bilangan << endl;
   13
   14
               return 0;
   15
   16
                                                                                        ■ D:\strukdat\strukdat\bin\Debug\strukdat.exe
         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 : 10.353 s
         Press any key to continue.
```

7. (Perulangan while – do)

```
nodul.cpp X strukdat\main.cpp X
   1
         #include <iostream>
   2
   3
         using namespace std;
   4
       5
   6
             int bilangan, asli, jumlah;
   7
   8
             cout << "Masukan bilangan asli: ";</pre>
   9
             cin >> asli;
  10
  11
             bilangan = 1;
  12
             jumlah = 0;
             while (bilangan <= asli) {
  13
                 if (bilangan % 2 == 0) {
  14
                     jumlah += bilangan;
  15
  16
  17
                 bilangan++;
  18
  19
             cout << "Jumlah bilangan genap: " << jumlah << endl;
  20
             return 0;
  21
  22
         D:\strukdat\strukdat\bin\Debug\strukdat.exe
                                                                            Masukan bilangan asli: 10
        Jumlah bilangan genap: 30
        Process returned 0 (0x0)
                                    execution time : 2.026 s
        Press any key to continue.
```