

NAMA : muhammad fathir perdana tommy

NIM :241011401524

PERTEMUAN : 4

Contoh:

The screenshot shows the Dev-C++ IDE interface. On the left is the code editor with the file `fathir_pertemuan4.cpp` containing the following code:

```
1 //NAMA : muhammad fathir perdana tommy
2 //NIM : 241011401524
3 //PERTEMUAN : 4
4
5 #include <iostream>
using namespace std;
6
7 int main(){
8     int a, b, c;
9     a=2;
10    b=4;
11    c=a+b+1;
12    cout<<c;
13
14 }
15
16 }
```

To the right of the code editor is the terminal window showing the execution results:

```
C:\Users\Syafa\OneDrive\Documents\fathir_pertemuan4.exe
Process exited after 0.1082 seconds with return value 0
Press any key to continue . . .
```

At the bottom left, the compiler results window displays:

```
Compilation results...
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Syafa\OneDrive\Documents\fathir_pertemuan4.exe
- Output Size: 1,83192157745361 MiB
- Compilation Time: 1,06s
```

Latihan 1 2 3:

The image displays four separate windows of the TDM-GCC Dev C++ 5.1 IDE, each showing a different stage of a C++ program's life cycle: compilation, linking, execution, and final output.

- Top Left Window:** Shows the code for `LATIHAN_FATHIR_1.cpp`. It includes a header guard, function declarations, and a main function. The code is as follows:

```
#ifndef LATIHAN_FATHIR_1_H
#ifndef LATIHAN_FATHIR_1_C
#define LATIHAN_FATHIR_1_C
#include <iostream>
using namespace std;
int main()
{
    cout << "A" << endl;
    cout << "B" << endl;
    cout << "C" << endl;
    return 0;
}
#endif //LATIHAN_FATHIR_1_C
```

- Top Right Window:** Shows the compilation results for `LATIHAN_FATHIR_1.cpp`. It indicates 0 errors, 0 warnings, and an output file size of 1.831920427793 KB. The command used was `tdm-gcc -c -fmax-errors=4 -o LATIHAN_FATHIR_1.o LATIHAN_FATHIR_1.cpp`.
- Middle Left Window:** Shows the code for `LATIHAN_FATHIR_2.cpp`, which is identical to the first one but contains a `#include <iomanip>` directive.
- Middle Right Window:** Shows the compilation results for `LATIHAN_FATHIR_2.cpp`. It indicates 0 errors, 0 warnings, and an output file size of 1.831920427793 KB. The command used was `tdm-gcc -c -fmax-errors=4 -o LATIHAN_FATHIR_2.o LATIHAN_FATHIR_2.cpp`.
- Bottom Left Window:** Shows the code for `LATIHAN_FATHIR_3.cpp`, which is identical to the first two but contains a `#include <cmath>` directive.
- Bottom Right Window:** Shows the compilation results for `LATIHAN_FATHIR_3.cpp`. It indicates 0 errors, 0 warnings, and an output file size of 1.831920427793 KB. The command used was `tdm-gcc -c -fmax-errors=4 -o LATIHAN_FATHIR_3.o LATIHAN_FATHIR_3.cpp`.

Soal A B C D :

The image displays four separate windows of a C++ development environment, likely Dev-C++, showing different versions of a factorial program. Each window includes a code editor, a compilation results pane, and a terminal window.

Version A:

```
#include <iostream>
using namespace std;
int main()
{
    cout << "Please enter a number: ";
    int n;
    cin >> n;
    cout << "Factorial of " << n << " is ";
    int fact = 1;
    for (int i = 1; i <= n; i++)
        fact *= i;
    cout << fact;
}
```

Version B:

```
#include <iostream>
using namespace std;
int main()
{
    cout << "Please enter a number: ";
    int n;
    cin >> n;
    cout << "Factorial of " << n << " is ";
    int fact = 1;
    for (int i = 1; i <= n; i++)
        fact *= i;
    cout << fact;
}
```

Version C:

```
#include <iostream>
using namespace std;
int main()
{
    cout << "Please enter a number: ";
    int n;
    cin >> n;
    cout << "Factorial of " << n << " is ";
    int fact = 1;
    for (int i = 1; i <= n; i++)
        fact *= i;
    cout << fact;
}
```

Version D:

```
#include <iostream>
using namespace std;
int main()
{
    cout << "Please enter a number: ";
    int n;
    cin >> n;
    cout << "Factorial of " << n << " is ";
    int fact = 1;
    for (int i = 1; i <= n; i++)
        fact *= i;
    cout << fact;
}
```

In all four versions, the terminal window shows the output: "Process exited after 0.156 seconds with return value 0 Press any key to continue . . ." and the compilation results pane shows a successful build.

Tugas variabel:

The screenshot shows the Dev-C++ IDE interface. On the left, the code editor displays a file named `tugas_variabel_tambah_fathir.cpp` with the following content:

```
1 //D:\User\Syafa\OneDrive\Documents\tugas_variabel_tambah_fathir.cpp - [Executing] - Dev-C++ 5.11
2 //NPM : 242011901524
3 //PERTEMUAN : 4
4
5 #include <iostream>
6 using namespace std;
7 int main()
8 {
9     int A, B, C, D, E;
10    A = 6;
11    B = 2;
12    C = 4;
13    D = 1;
14    E = 3;
15    cout<<(A+B+C+D+E)<<endl;
16 }
17 }
```

To the right, the terminal window shows the output of the program:

```
28
=====
Process exited after 0.1255 seconds with return value 0
Press any key to continue . . .
```

Below the terminal window, the compiler log shows:

```
Compilation results...
-----
- Errors: 0
- Warnings: 0
- File: Filename: C:\Users\Syafa\OneDrive\Documents\tugas_variabel_tambah_fathir.cpp
- Output Size: 1.831920206787109 MIB
- Compilation Time: 1.14s
```

Flowchart :

