

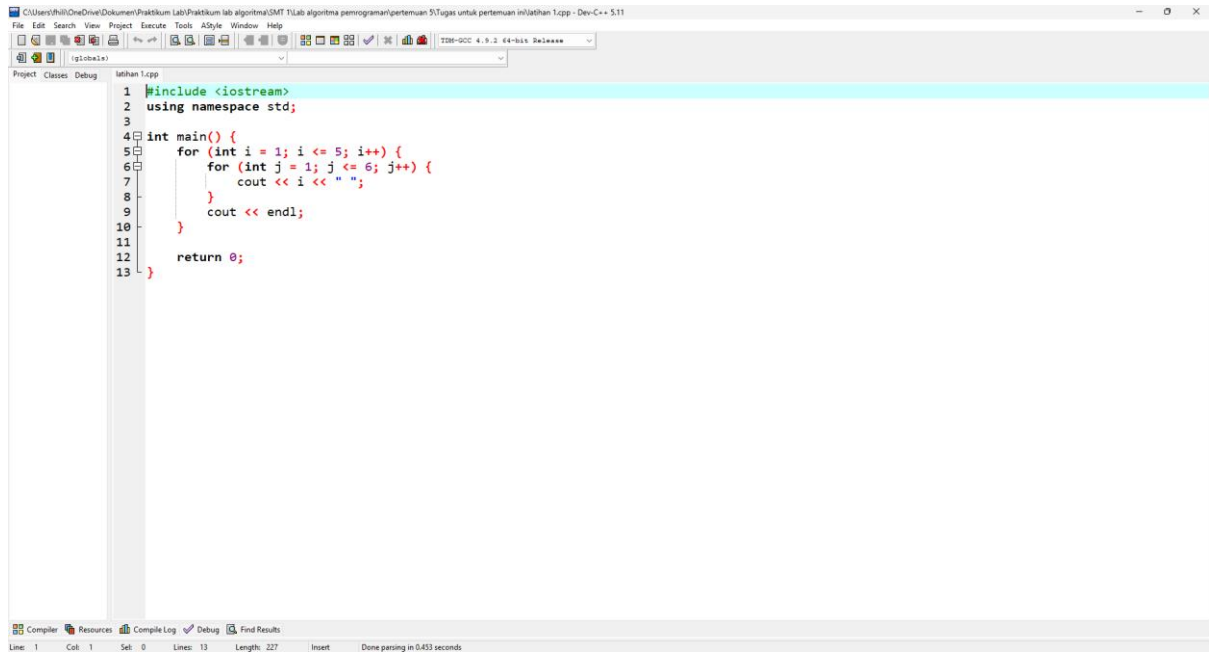
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Tugas dan Latihan

Latihan 1:

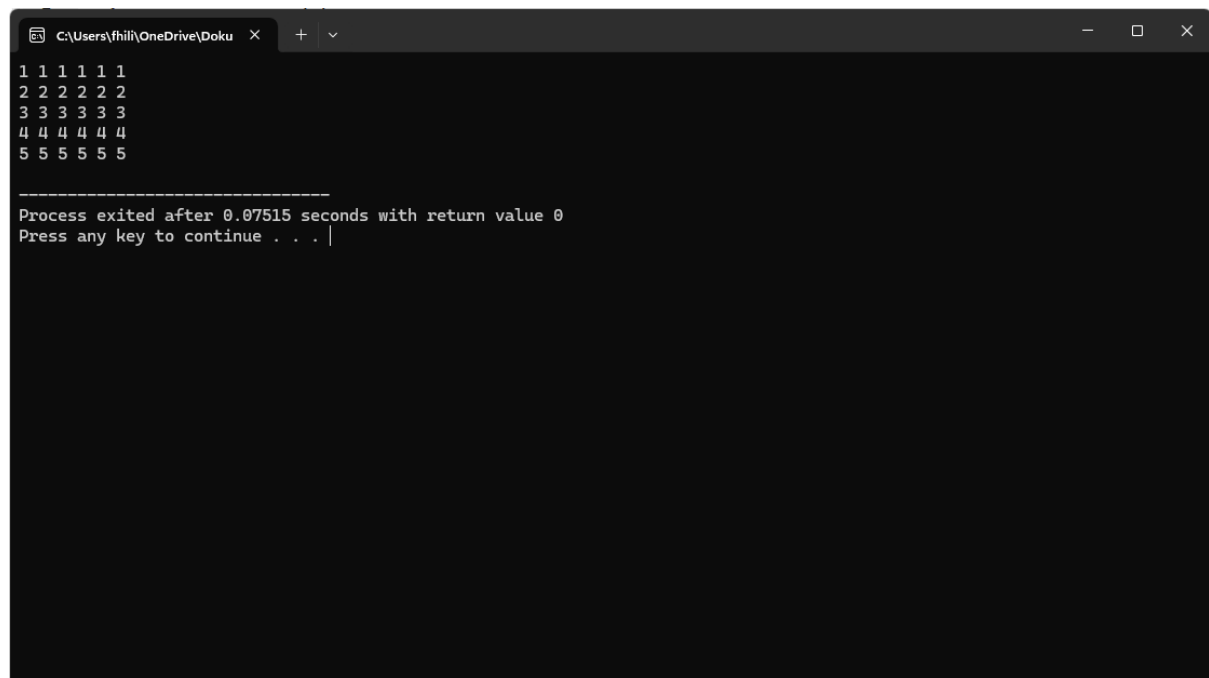


The screenshot shows a C++ IDE window titled "C:\Users\Philif\OneDrive\Documents\Praktikum Lab algoritma\SMK 1\Lab algoritma pemrograman\pertemuan 5\Tugas untuk pertemuan ini\latihan 1.cpp - Dev-C++ 5.11". The code in the editor is as follows:

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     for (int i = 1; i <= 5; i++) {
6         for (int j = 1; j <= 6; j++) {
7             cout << i << " ";
8         }
9         cout << endl;
10    }
11
12    return 0;
13 }
```

The status bar at the bottom indicates: Line: 1, Col: 1, Set: 0, Lines: 13, Length: 227, Insert, Done parsing in 0.433 seconds.

Outputnya:

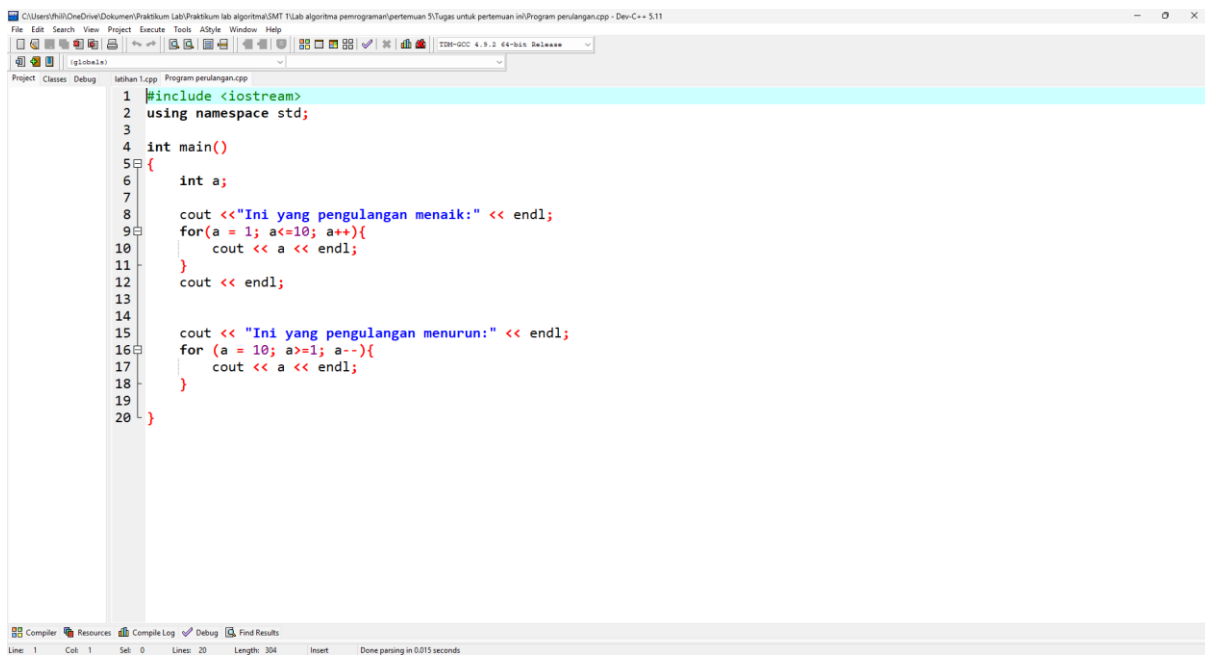


The screenshot shows a terminal window with the following output:

```
1 1 1 1 1 1
2 2 2 2 2 2
3 3 3 3 3 3
4 4 4 4 4 4
5 5 5 5 5 5

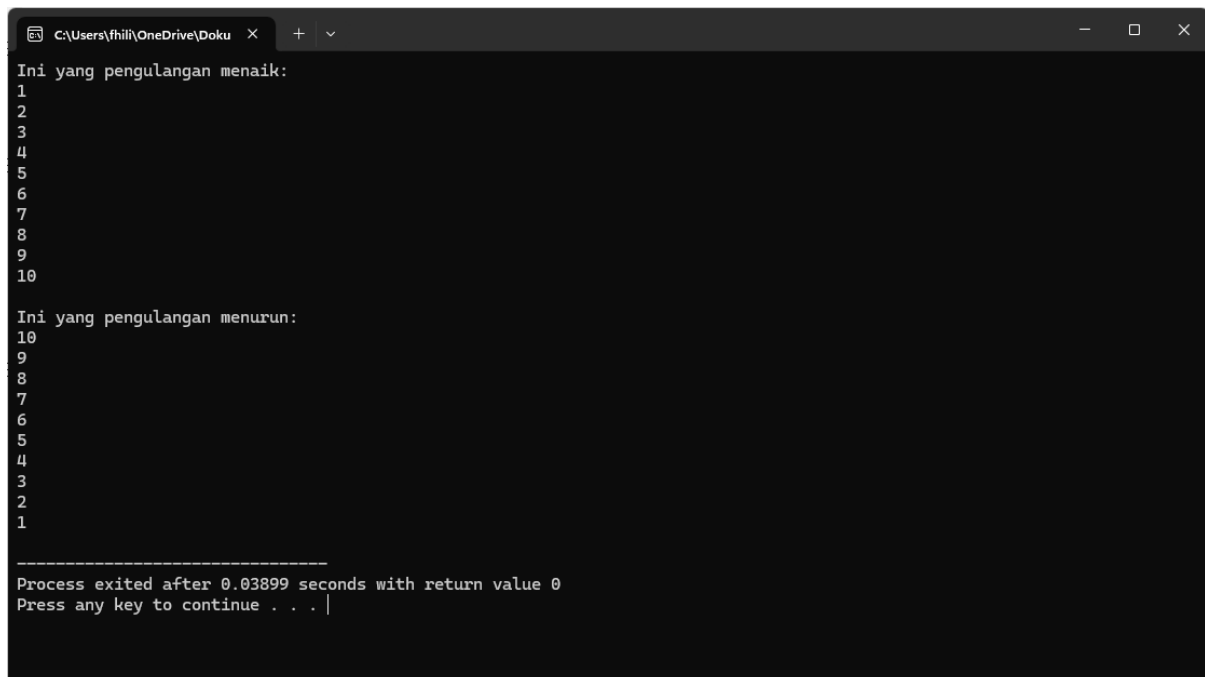
-----
Process exited after 0.07515 seconds with return value 0
Press any key to continue . . .
```

Latihan 2:



```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     int a;
7
8     cout << "Ini yang pengulangan menaik:" << endl;
9     for(a = 1; a <= 10; a++){
10         cout << a << endl;
11     }
12     cout << endl;
13
14     cout << "Ini yang pengulangan menurun:" << endl;
15     for(a = 10; a >= 1; a--){
16         cout << a << endl;
17     }
18
19
20 }
```

Outputnya:

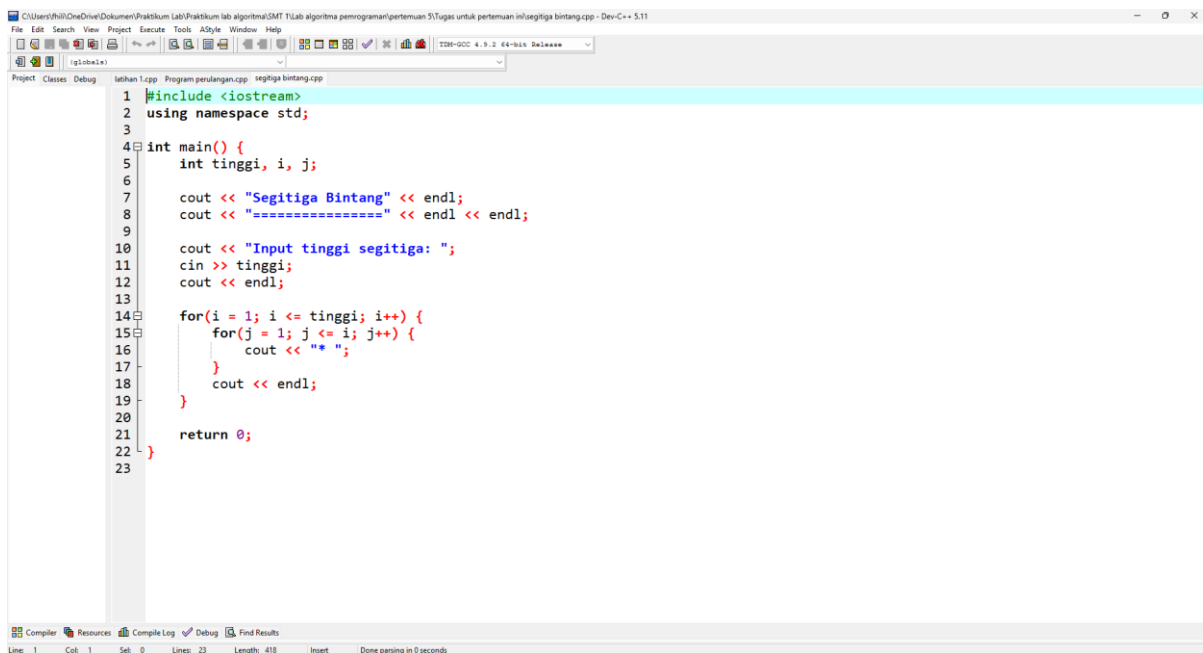


```
Ini yang pengulangan menaik:
1
2
3
4
5
6
7
8
9
10

Ini yang pengulangan menurun:
10
9
8
7
6
5
4
3
2
1

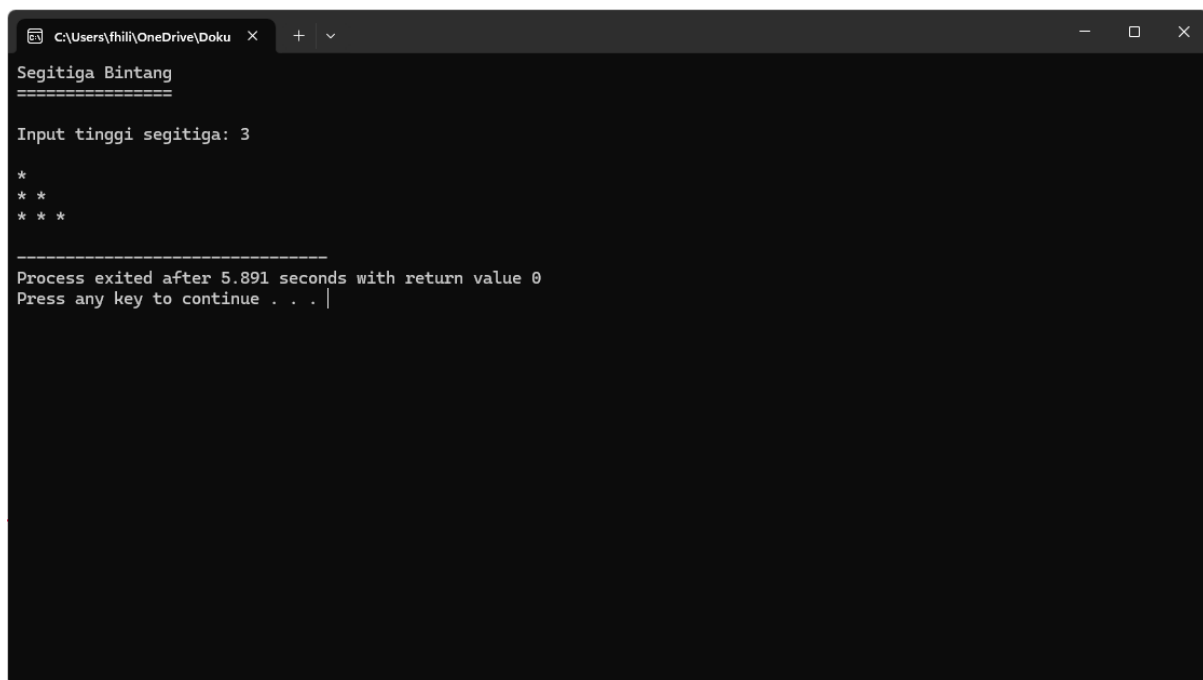
-----
Process exited after 0.03899 seconds with return value 0
Press any key to continue . . . |
```

Latihan 3:



```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int tinggi, i, j;
6
7     cout << "Segitiga Bintang" << endl;
8     cout << "======" << endl << endl;
9
10    cout << "Input tinggi segitiga: ";
11    cin >> tinggi;
12    cout << endl;
13
14    for(i = 1; i <= tinggi; i++) {
15        for(j = 1; j <= i; j++) {
16            cout << "* ";
17        }
18        cout << endl;
19    }
20
21    return 0;
22 }
23
```

Outputnya:



```
Segitiga Bintang
=====

Input tinggi segitiga: 3

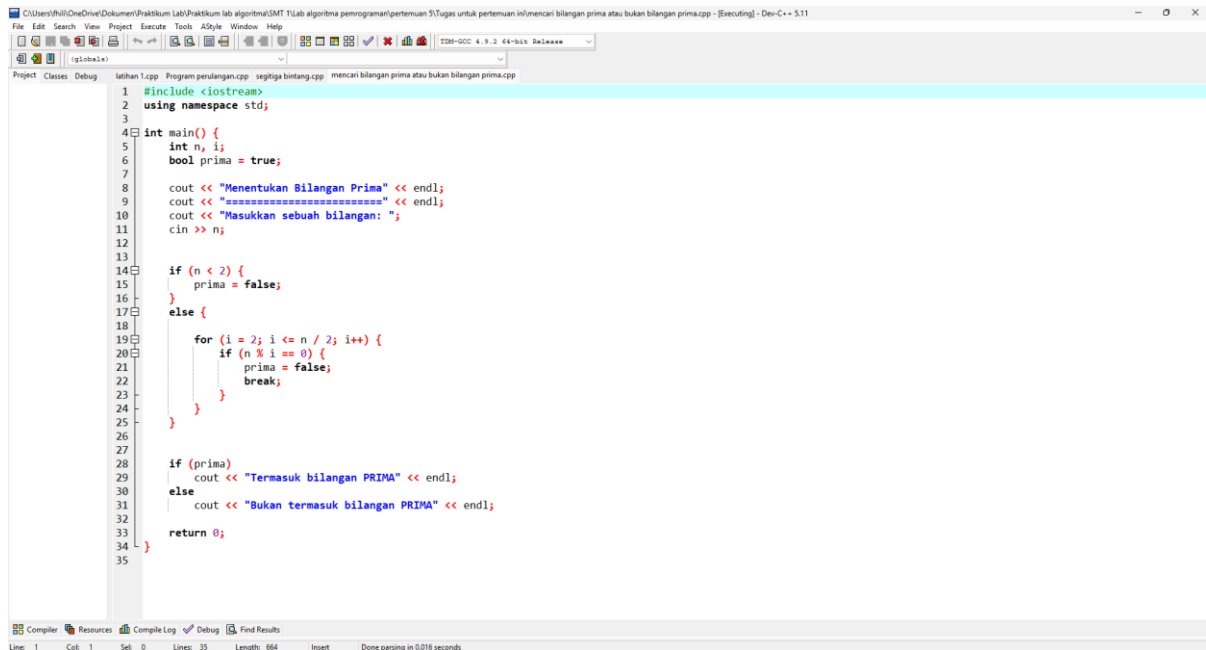
*
* *
* * *

=====

Process exited after 5.891 seconds with return value 0
Press any key to continue . . .
```

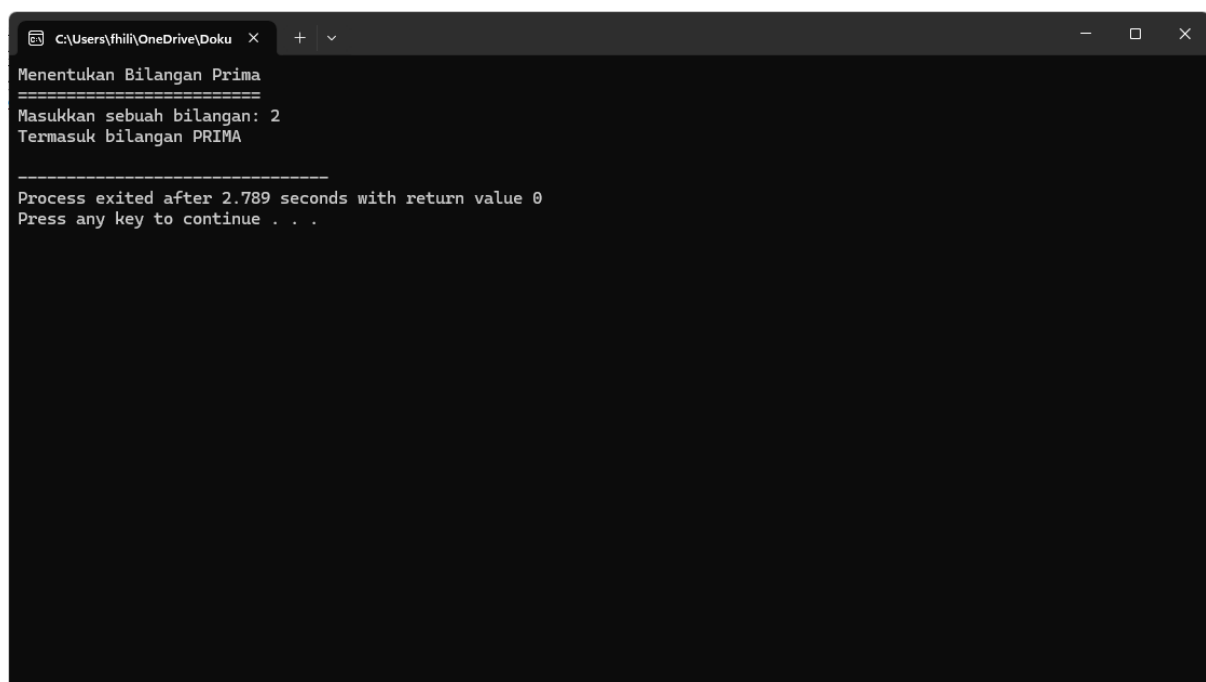
Latihan 4:

Buat program mencari bilangan Prima, yaitu termasuk bilangan prima atau tidak bilangan prima:



```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int n, i;
6     bool prima = true;
7
8     cout << "Menentukan Bilangan Prima" << endl;
9     cout << "===== " << endl;
10    cout << "Masukkan sebuah bilangan: ";
11    cin >> n;
12
13
14    if (n < 2) {
15        prima = false;
16    }
17    else {
18
19        for (i = 2; i <= n / 2; i++) {
20            if (n % i == 0) {
21                prima = false;
22                break;
23            }
24        }
25    }
26
27    if (prima)
28        cout << "Termasuk bilangan PRIMA" << endl;
29    else
30        cout << "Bukan termasuk bilangan PRIMA" << endl;
31
32    return 0;
33 }
34
35
```

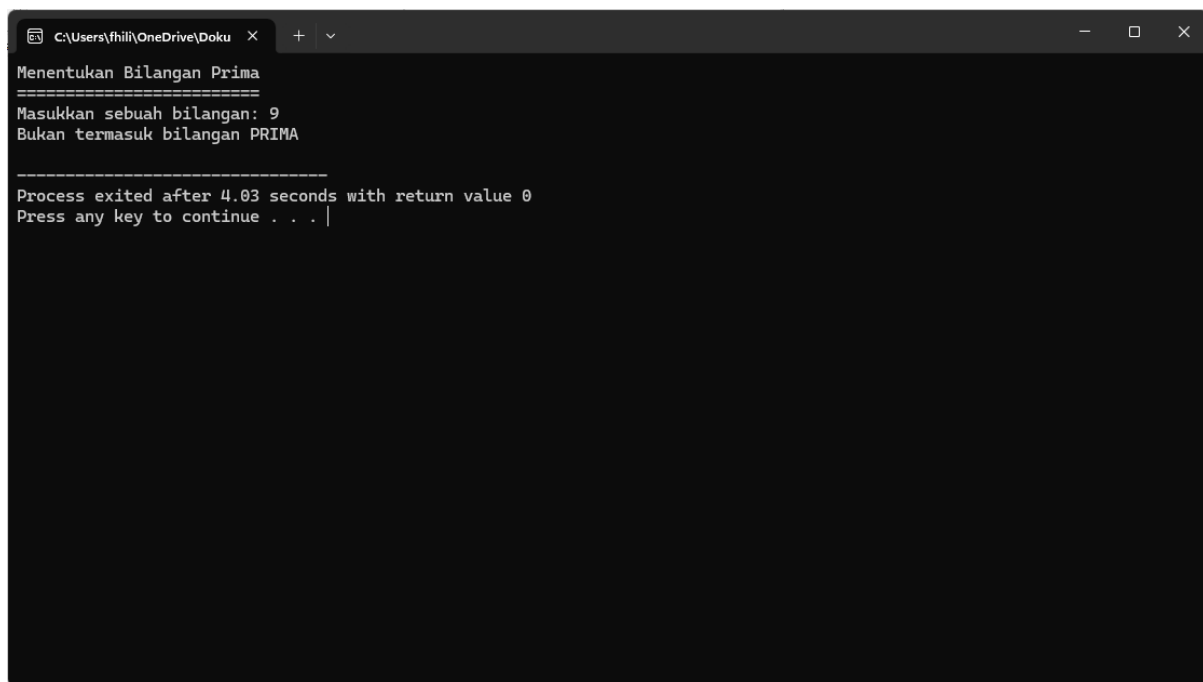
Outputnya ketika termasuk bilangan Prima:



```
C:\Users\fhili\OneDrive\Doku x + v
Menentukan Bilangan Prima
=====
Masukkan sebuah bilangan: 2
Termasuk bilangan PRIMA

-----
Process exited after 2.789 seconds with return value 0
Press any key to continue . . .
```

Output ketika tidak termasuk bilangan Prima:



```
C:\Users\fhili\OneDrive\Doku > Menentukan Bilangan Prima
=====
Masukkan sebuah bilangan: 9
Bukan termasuk bilangan PRIMA

=====
Process exited after 4.03 seconds with return value 0
Press any key to continue . . .
```