

TUGAS – 2

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Kelas : TI-24-PA

Matkul : Algoritma Pemrograman Struktur Data

Program Deret Bilangan 1-5

The screenshot shows the Dev-C++ IDE with a C++ program open. The program is titled "Pertemuan 5 - Muchamad Rofii (1-5).cpp". The code is as follows:

```
1 #include <iostream>
2 using namespace std;
3
4 int main(){
5     int a,b,s;
6
7     for(a=1; a<=5; a++){
8         for(b=1; b<=5; b++){
9             cout<<a<<" ";
10        }
11        cout<<endl;
12    }
13    getch();
14 }
15 }
```

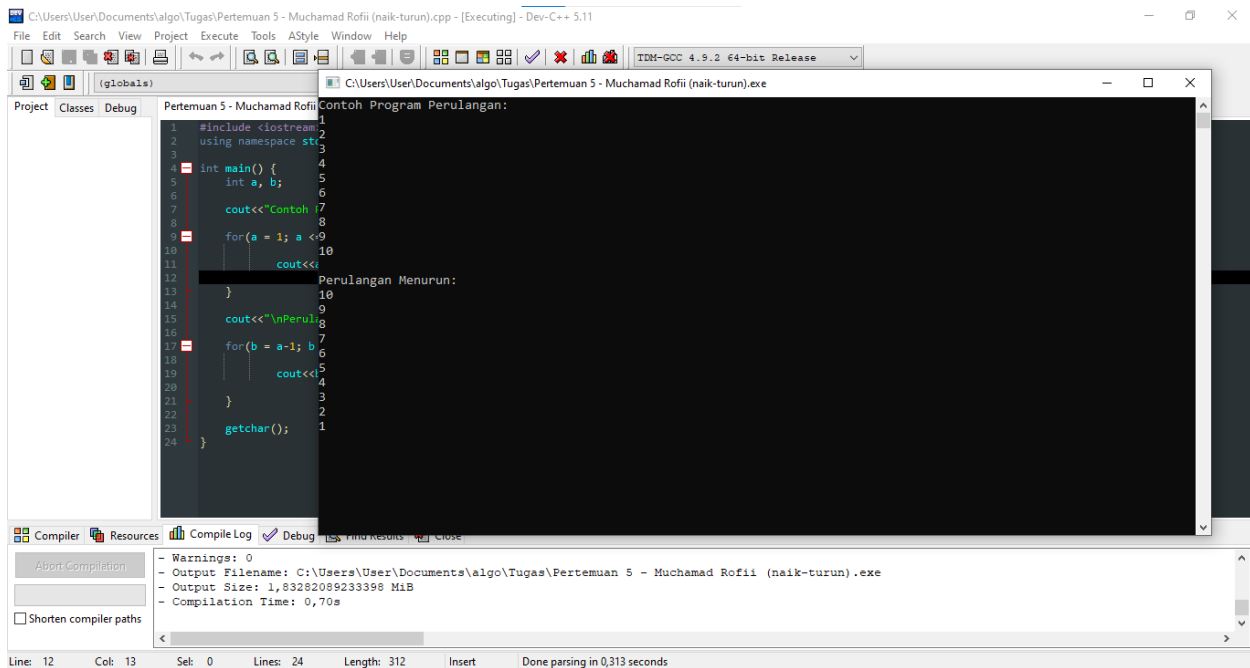
The output window shows the result of the program execution, which is a 5x5 grid of numbers 1-5:

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

The status bar at the bottom indicates the current line is 10, column is 26, and the program is done parsing in 0.859 seconds.

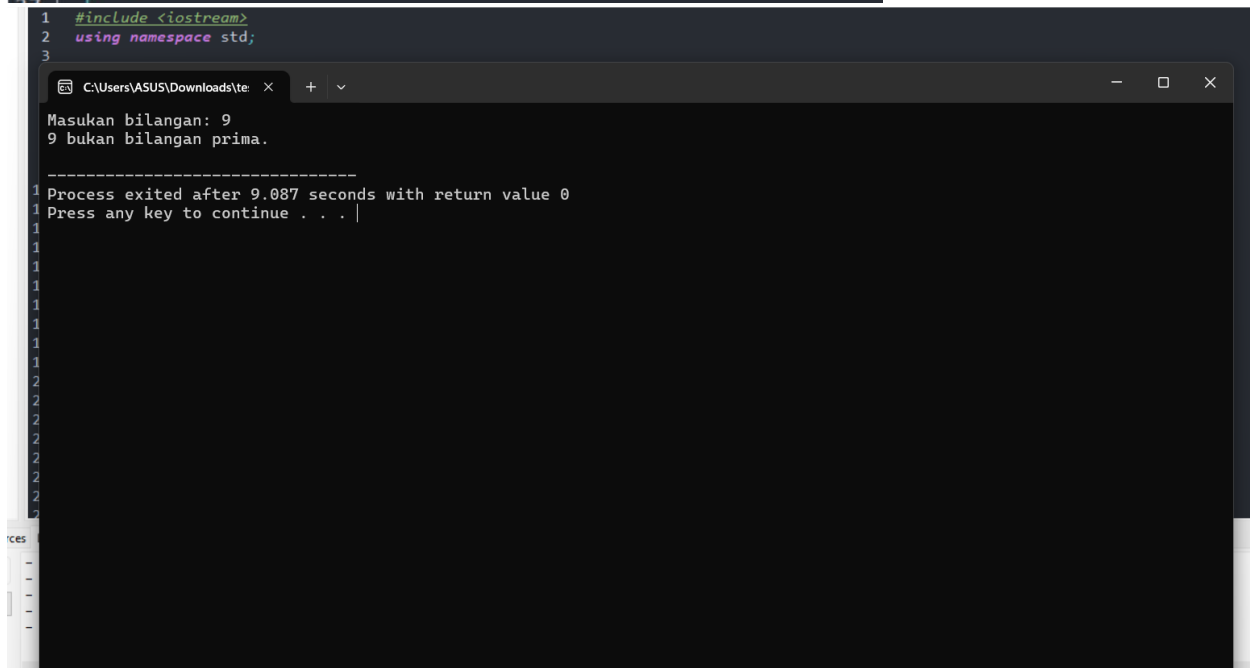
Program Perulangan Bilangan

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int a, b;
6
7      cout<<"Contoh Program Perulangan: "<<endl;
8
9      for(a = 1; a <= 10; a++) {
10         cout<<a<<endl;
11     }
12
13     cout<<"\nPerulangan Menurun: "<<endl;
14
15     for(b = a-1; b >= 1; b--) {
16         cout<<b<<endl;
17     }
18
19     getchar();
20 }
21
22
23
24
```



Program penentu bilangan prima

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int angka;
6      int BukanPrima=0;
7      int i;
8
9      cout << "Masukan bilangan: ";
10     cin >> angka;
11
12     if (angka < 2) {
13         cout << angka << " bukan bilangan prima." << endl;
14     } else {
15
16         for (i = 2; i <= angka / 2; i++) {
17             if (angka % i == 0) {
18                 BukanPrima = 1;
19             }
20         }
21     }
22     if (BukanPrima == 0) {
23         cout << angka << " adalah bilangan prima." << endl;
24     } else {
25         cout << angka << " bukan bilangan prima." << endl;
26     }
27 }
```



```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int angka;
6      int BukanPrima=0;
7      int i;
8
9      cout << "Masukan bilangan: ";
10     cin >> angka;
11
12     if (angka < 2) {
13         cout << angka << " bukan bilangan prima." << endl;
14     } else {
15
16         for (i = 2; i <= angka / 2; i++) {
17             if (angka % i == 0) {
18                 BukanPrima = 1;
19             }
20         }
21     }
22     if (BukanPrima == 0) {
23         cout << angka << " adalah bilangan prima." << endl;
24     } else {
25         cout << angka << " bukan bilangan prima." << endl;
26     }
27 }
```

C:\Users\ASUS\Downloads\te... x + -

Masukan bilangan: 9
9 bukan bilangan prima.

Process exited after 9.087 seconds with return value 0
Press any key to continue . . . |

Belah ketupat bolong

[illegible]

```

1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int n;
6
7      cout<<"Input lebar belah ketupat = ";
8      cin>>n;
9
10     for (int i = 0; i < n; i++) {
11         for (int j = i; j < n; j++) {
12             cout << " ";
13         }
14         for (int j = 0; j < 2 * i; j++) {
15             cout << " ";
16         }
17         for (int j = i; j < n; j++) {
18             cout << " ";
19         }
20         cout << endl;
21     }
22
23     for (int i = 0; i < n; i++) {
24         for (int j = 0; j <= i; j++) {
25             cout << " ";
26         }
27         for (int j = 0; j < 2 * (n - i - 1); j++) {
28             cout << " ";
29         }
30         for (int j = 0; j <= i; j++) {
31             cout << " ";
32         }
33         cout << endl;
34     }
35
36     getchar();
37
38 }

```