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Praktikum	: Dasar Pemrograman		
Tugas Akhir Praktikum	: 2	ACC DOSBIM	ACC ASLAB

1. Program sederhana menggunakan *for*, *do ... while*, dan *while*

a) *for*

```

/* Perulangan For */
#include <iostream>
#include <conio.h>
using namespace std;
int main()
{
    int bil1, bil2, bil3;
    cout<<"====="<<endl;
    cout<<"1. Menampilkan deret angka 0 sampai 10"<<endl;
    cout<<"====="<<endl<<endl;
    for(bil1=0; bil1<=10; bil1++)
    {
        cout<<bil1<<" ";
    }
    cout<<endl<<endl;
    cout<<"====="<<endl;
    cout<<"2. Menampilkan deret angka genap 2 sampai 10"<<endl;
    cout<<"====="<<endl<<endl;
    for(bil2=2; bil2<=10; bil2++)
    {
        bil2%2==0;
        cout<<bil2<<" ";
        bil2++;
    }
    cout<<endl<<endl;
    cout<<"====="<<endl;
    cout<<"3. Menampilkan deret angka ganjil 1 sampai 9"<<endl;
    cout<<"====="<<endl<<endl;
    for(bil3=0; bil3<10; bil3++)
    {
        bil3%2!=0;
        cout<<bil3+1<<" ";
        bil3++;
    }
    cout<<endl;
    getch();
}

```

```
"D:\Hafied Mustaman\UNTAG\semester gasal\praktikum\tugas akhir praktikum 2\1.exe"
=====
1. Menampilkan deret angka 0 sampai 10
=====
0 1 2 3 4 5 6 7 8 9 10

=====
2. Menampilkan deret angka genap 2 sampai 10
=====
2 4 6 8 10

=====
3. Menampilkan deret angka ganjil 1 sampai 9
=====
1 3 5 7 9
-
```

b) *do ... while*

```
/* Perulangan Do While */
#include <iostream>
#include <conio.h>
using namespace std;
int main()
{
    int bil1=0, bil2=0, bil3=0;
    cout<<"======"<<endl;
    cout<<"1. Menampilkan deret angka 0 sampai 10"<<endl;
    cout<<"======"<<endl<<endl;
    do
    {
        cout<<bil1<<" ";
        bil1++;
    }
    while(bil1<=10);
    cout<<endl<<endl;
    cout<<"======"<<endl;
    cout<<"2. Menampilkan deret angka genap 2 sampai 10"<<endl;
    cout<<"======"<<endl<<endl;
    do
    {
        bil2=bil2+2;
        cout<<bil2<<" ";
    }
    while(bil2<=8);
    cout<<endl<<endl;
    cout<<"======"<<endl;
    cout<<"3. Menampilkan deret angka ganjil 1 sampai 9"<<endl;
```

```

cout<<"======"<<endl<<endl;
do
{
    bil3=bil3+1;
    cout<<bil3<<" ";
    bil3++;
}
while(bil3<=9);
cout<<endl;
getch();
}

```

```

D:\Hafied Mustaman\UNTAG\semester gasal\praktikum\tugas akhir praktikum 2\2.exe
=====
1. Menampilkan deret angka 0 sampai 10
=====
0 1 2 3 4 5 6 7 8 9 10

=====
2. Menampilkan deret angka genap 2 sampai 10
=====
2 4 6 8 10

=====
3. Menampilkan deret angka ganjil 1 sampai 9
=====
1 3 5 7 9

```

c) *while*

```

/* Perulangan While */
#include <iostream>
#include <conio.h>
using namespace std;
int main()
{
    int bil1=0, bil2=0, bil3=0;
    cout<<"======"<<endl;
    cout<<"1. Menampilkan deret angka 0 sampai 10"<<endl;
    cout<<"======"<<endl<<endl;
    while(bil1<=10)
    {
        cout<<bil1<<" ";
        bil1++;
    }
    cout<<endl<<endl;
}

```

```

cout<<"======"<<endl;
cout<<"2. Menampilkan deret angka genap 2 sampai 10"<<endl;
cout<<"======"<<endl<<endl;
while(bil2<=8)
{
    bil2=bil2+2;
    cout<<bil2<<" ";
}
cout<<endl<<endl;
cout<<"======"<<endl;
cout<<"3. Menampilkan deret angka ganjil 1 sampai 9"<<endl;
cout<<"======"<<endl<<endl;
while(bil3<=9)
{
    bil3=bil3+1;
    cout<<bil3<<" ";
    bil3++;
}
cout<<endl;
getch();
}

```

```

D:\Hafied Mustaman\UNTAG\semester gasal\praktikum\tugas akhir praktikum 2\3.exe
=====
1. Menampilkan deret angka 0 sampai 10
=====
0 1 2 3 4 5 6 7 8 9 10
=====
2. Menampilkan deret angka genap 2 sampai 10
=====
2 4 6 8 10
=====
3. Menampilkan deret angka ganjil 1 sampai 9
=====
1 3 5 7 9
=====

```

2. Program dengan n diinput oleh user dan program bisa diulang sesuai keinginan user

```

/* program nomer 2 */
#include <iostream>
#include <conio.h>
using namespace std;
int main()
{

```

```

int bil=1, n;
cout<<"Masukkan nilai n: ";
cin>>n;
cout<<endl;
for(int i=0; i<n; i++)
{
    bil=bil+i;
    cout<<bil<<" ";
}
bil=1;
if(n<=0)
{
    cout<<"ERROR!!!";
}
cout<<endl;
getch();
}

```

```

D:\Hafied Mustaman\UNTAG\semester gasal\praktikum\tugas akhir praktikum 2\4.exe
Masukkan nilai n: 6
1, 2, 4, 7, 11, 16,

```

3. Program dengan tinggi diinput oleh user

```

/* program nomer 3 */
#include <iostream>
#include <conio.h>
using namespace std;
int main()
{
    int a, b, tinggi;
    cout<<"Masukkan tinggi: ";
    cin>>tinggi;
    for(a=0; a<=tinggi; a++)

```

```
{
    for(b=1; b<=a; b++)
    {
        cout<<(b+a)-1<<" ";
    }
    cout<<endl;
}
if(tinggi<=0)
{
    cout<<"ERROR!!!";
}
cout<<endl;
getch();
}
```



```
D:\Hafied Mustaman\UNTAG\semester gasal\praktikum\tugas akhir praktikum 2\5.exe
Masukkan tinggi: 5
1
2 3
3 4 5
4 5 6 7
5 6 7 8 9
```

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2. Program dengan n diinput oleh user dan program bisa diulang sesuai keinginan user

```
/* program nomer 2 */
#include <iostream>
#include <conio.h>
using namespace std;
int main()
{
    int bil=1, n;
    char ulang;
    do
    {
        cout<<"Masukkan nilai n: ";
        cin>>n;
        cout<<endl;
        for(int i=0; i<n; i++)
        {
            bil=bil+i;
            cout<<bil<<" ";
        }
        bil=1;
        if(n<=0)
        {
            cout<<"ERROR!!!";
        }
        cout<<endl<<endl;
        cout<<"Apakah anda ingin mengulangi lagi? (Y/N): ";
        cin>>ulang;
        cout<<endl;
    }
    while(ulang == 'Y');
    getch();
    return 0;
}
```

"D:\Hafied Mustaman\UNTAG\semester gasal\praktikum\tugas akhir praktikum 2\4.exe"

```
Masukkan nilai n: 6
1, 2, 4, 7, 11, 16,
Apakah anda ingin mengulangi lagi? (Y/N): Y
Masukkan nilai n: _
```