

CLAUDIA P  
2013470226

1.

```
#include<iostream>
```

```
#include<conio.h>
```

```
#include<stdio.h>
```

```
using namespace std;
```

```
class Mahasiswa
```

```
{
```

```
protected :
```

```
char NIM[10], Nama[30];
```

```
public :
```

```
void Masuk_Data()
```

```
{
```

```
    cout<<"Masukkan Nomor Induk Mahasiswa : "; cin>>NIM;
```

```
    cout<<"Masukkan Nama Mahasiswa          : "; cin>>Nama;
```

```
}
```

```
void Tampil_Data()
```

```
{
```

```
    cout<<"===== "<<endl;
```

```
    cout<<"Nomor Induk Mahasiswa          : "<<NIM<<endl;
```

```
    cout<<"Nama Mahasiswa                  : "<<Nama<<endl;
```

```
}
```

```
};
```

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```
class Dosen : public Mahasiswa
{
    protected :
        char Judul[20], Telpon[20];
    public :
        void Masuk_Data()
        {
            Mahasiswa :: Masuk_Data();
            cout<<"Masukkan judul makalah dari Dosen : "; cin>>Judul;
            cout<<"Masukkan No. Telpon          : "; cin>>Telpon;
        }

        void Tampil_Data()
        {
            Mahasiswa :: Tampil_Data();
            cout<<"Judul Makalah dari Dosen          : "<<Judul<<endl;
            cout<<"No Telpon                        : "<<Telpon<<endl;
        }
};

int main ()
{
    Dosen P1;
```

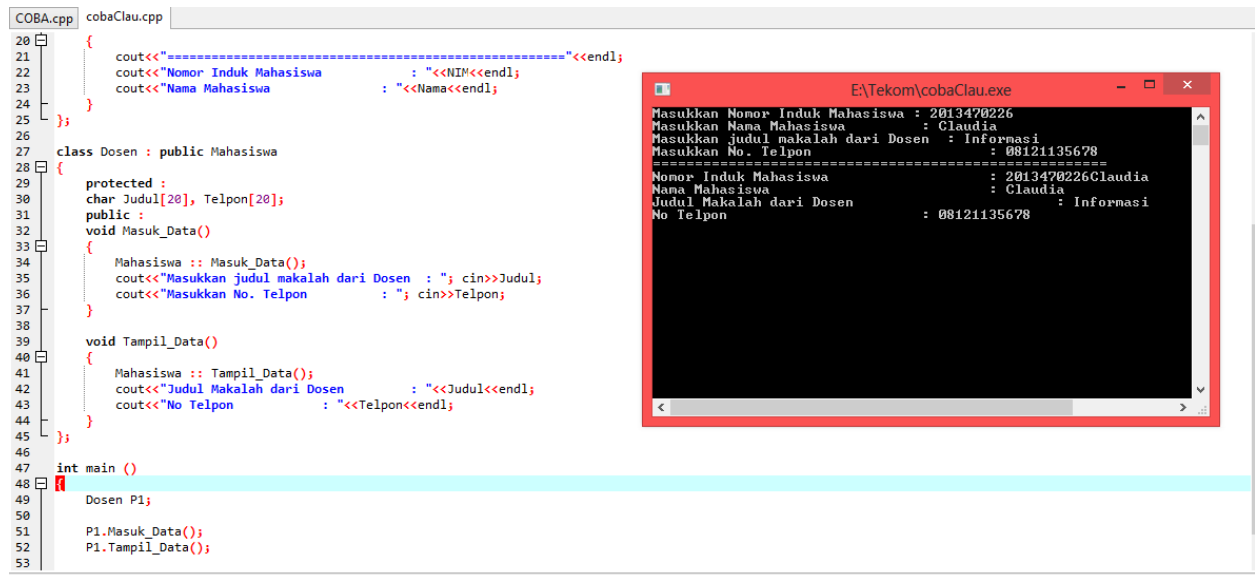
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P1.Masuk\_Data();

P1.Tampil\_Data();

getch();

}



The screenshot shows a C++ IDE with two windows. The left window, titled 'COBA.cpp', displays the source code for 'cobaClau.cpp'. The code defines a base class 'Mahasiswa' with methods 'Masuk\_Data()' and 'Tampil\_Data()'. A derived class 'Dosen' inherits from 'Mahasiswa' and overrides these methods. The 'main' function creates a 'Dosen' object 'P1' and calls its methods. The right window, titled 'E:\Tekom\cobaClau.exe', shows the program's execution output. It prompts the user to enter the student ID, name, title, and phone number, and then displays the entered information.

```
20 {  
21     cout<<"===== "<<endl;  
22     cout<<"Nomor Induk Mahasiswa : "<<NIM<<endl;  
23     cout<<"Nama Mahasiswa : "<<Nama<<endl;  
24 }  
25 };  
26  
27 class Dosen : public Mahasiswa  
28 {  
29     protected :  
30     char Judul[20], Telpon[20];  
31     public :  
32     void Masuk_Data()  
33     {  
34         Mahasiswa :: Masuk_Data();  
35         cout<<"Masukkan judul makalah dari Dosen : "; cin>>Judul;  
36         cout<<"Masukkan No. Telpon : "; cin>>Telpon;  
37     }  
38  
39     void Tampil_Data()  
40     {  
41         Mahasiswa :: Tampil_Data();  
42         cout<<"Judul Makalah dari Dosen : "<<Judul<<endl;  
43         cout<<"No Telpon : "<<Telpon<<endl;  
44     }  
45 };  
46  
47 int main ()  
48 {  
49     Dosen P1;  
50  
51     P1.Masuk_Data();  
52     P1.Tampil_Data();  
53 }
```

Execution Output:

```
Masukkan Nomor Induk Mahasiswa : 2013470226  
Masukkan Nama Mahasiswa : Claudia  
Masukkan judul makalah dari Dosen : Informasi  
Masukkan No. Telpon : 08121135678  
=====  
Nomor Induk Mahasiswa : 2013470226Claudia  
Nama Mahasiswa : Claudia  
Judul Makalah dari Dosen : Informasi  
No Telpon : 08121135678
```

2. #include <stdlib.h>

#include <iostream>

#include <conio.h>

using namespace std;

int main(int argc, char \*argv[])

{

system("cls");

int i,hasil,a;

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```
    hasil=0;

    cout<<"masukkan nilai a :";cin>>a;

    i=1;

    while(i<=a)

    {

        cout<<i<<" + ";

        hasil= hasil + i;

        i++;

    }

    cout<<"\b\b";

    cout<<" = "<<hasil<<"\n";

    system("PAUSE");

    getch();

    return EXIT_SUCCESS;

}
```

