

LAPORAN PRAKTEK
ALGORITMA PEMROGRAMAN



DISUSUN OLEH:
EKO RACHMAT SATRIYO (2100018142)
KELAS C

PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS TEKNOLOGI INDUSTRI
UNIVERSITAS AHMAD DAHLAN
2022

```

1  #include <iostream>
2  using namespace std;
3  class perulangan{
4  public:
5      void ulang_for(int);
6      void ulang_rekursif(int);
7  private:
8      int n;
9  };
10 void perulangan::ulang_for(int n){
11     for(int i = 1; i<= n;i++){
12         cout<<i<<" ";
13     }
14 }
15 void perulangan::ulang_rekursif(int n){
16     int i = 4;
17     while(i>=n){
18         cout<<i<<" ";
19         i--;
20     }
21 }
22 main(){
23     perulangan x;
24     cout<<"Menggunakan cara iteratif \n ";
25     x.ulang_for(4);
26     cout<<"\nMenggunakan cara rekursif \n ";
27     x.ulang_rekursif(4);
28 }

```

```

E:\KULIAH\SEMUA PRAKTIK II\Alpro\Prak Alpro\5\kode\cpp\prak.exe
Menggunakan cara iteratif
1 2 3 4
Menggunakan cara rekursif
4
-----
Process exited after 0.01588 seconds with return value 0
Press any key to continue . . .

```

Menuliskan kode dan hasil

The screenshot shows a code editor with three panels. The left panel, titled 'Files', lists 'main.cpp', 'class.h', and 'struk.txt'. The middle panel, titled 'struk.txt', displays the output of a program, which is a receipt for Universitas Ahmad Dahlan. The right panel, titled 'Console', shows the command prompt output, including the execution of 'make -s' and the program's output for student 'Eko' with NIM '142'.

```
1 =====
2 UNIVERSITAS AHMAD DAHLAN
3 =====
4 Nama : Eko
5 NIM : 142
6 =====
7 Daftar Matkul      SKS
8 Alpro              4
9 =====
10 Total pembayaran  = Rp.427500
```

```
> make -s
> ./main
signal: terminated
> ./main

=====
Masukan nama mahasiswa : Eko
Masukan NIM : 142

=====
Banyak Matkul : 1

=====
Masukan matakuliah : Alpro
Masukan SKS : 4

=====
4>
```

Kiri file,tengah output(struk.txt),kanan input

The screenshot shows a code editor with three panels. The left panel, titled 'Files', lists 'main.cpp', 'class.h', and 'struk.txt'. The middle panel, titled 'main.cpp', displays the source code of the program. The right panel, titled 'Console', shows the command prompt output, including the execution of 'make -s' and the program's output for student 'Eko' with NIM '142'.

```
1 #include "class.h"
2 #include <fstream>
3 #include <iostream>
4 using namespace std;
5
6 int main() {
7     Matakuliah MT;
8
9     MT.getDataMahasiswa();
10    MT.getMatkul();
11    MT.getListMatkul(MT.totalMatkul);
12    MT.printOutput();
13
14    return 0;
15 }
```

```
> make -s
> ./main
signal: terminated
> ./main

=====
Masukan nama mahasiswa : Eko
Masukan NIM : 142

=====
Banyak Matkul : 1

=====
Masukan matakuliah : Alpro
Masukan SKS : 4

=====
4>
```

Link

<https://github.com/142Eko/Prak-alpro/tree/master/5/kode>

<https://replit.com/join/hpnoiprgoy-pauljoych1>