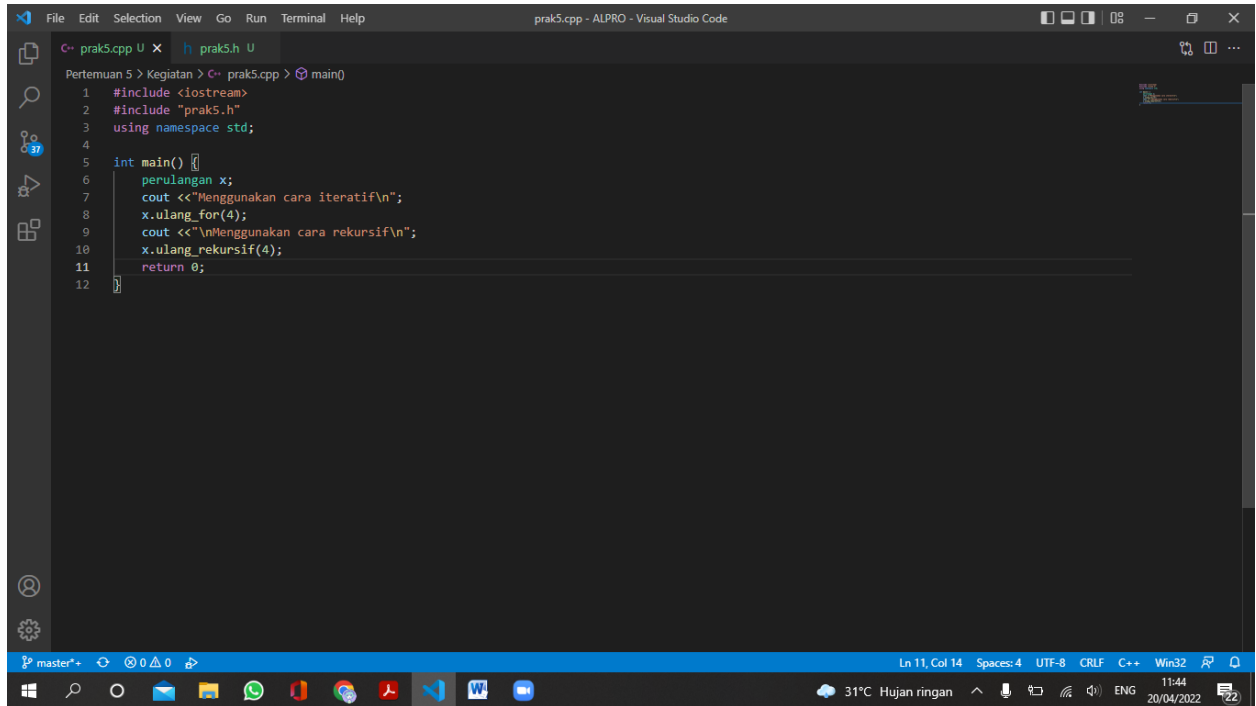


## KEGIATAN 5

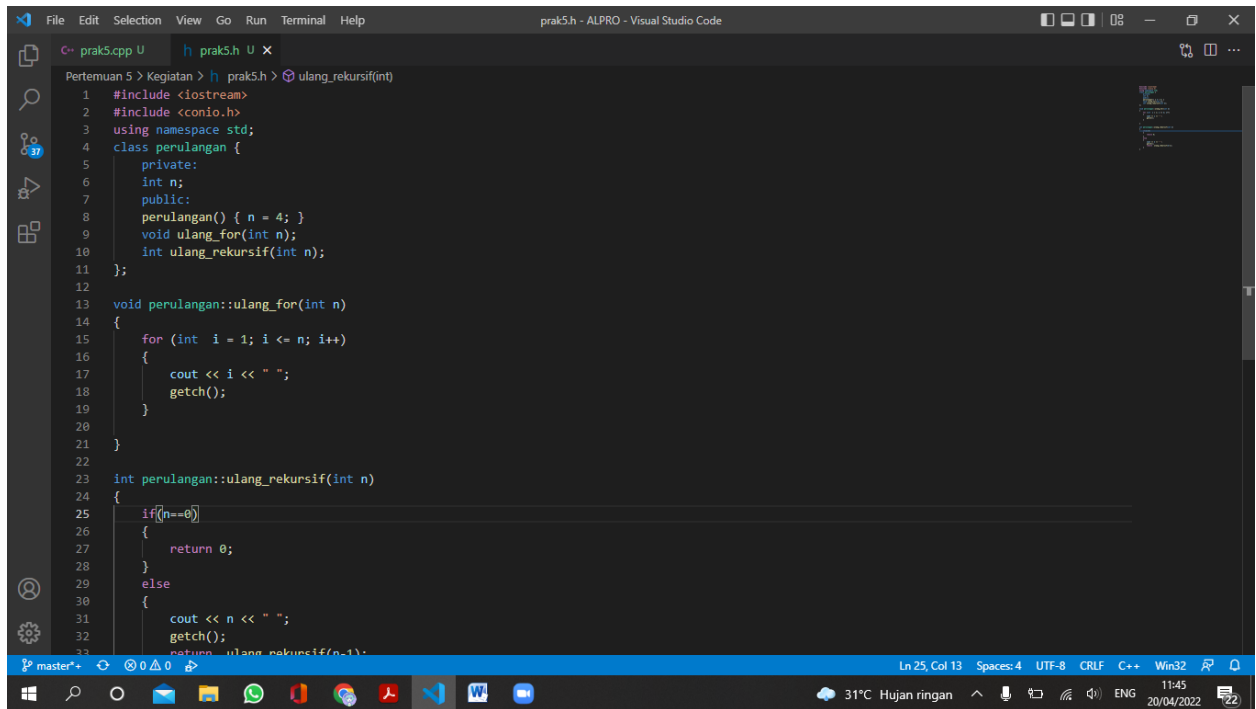
### 1. Membuat fungsi perulangan :



```
File Edit Selection View Go Run Terminal Help
prak5.cpp - ALPRO - Visual Studio Code

C:\prak5.cpp U x h prak5.h U
Pertemuan 5 > Kegiatan > C++ prak5.cpp > main()
1 #include <iostream>
2 #include "prak5.h"
3 using namespace std;
4
5 int main() {
6     perulangan x;
7     cout << "Menggunakan cara iteratif\n";
8     x.ulang_for(4);
9     cout << "\nMenggunakan cara rekursif\n";
10    x.ulang_rekursif(4);
11    return 0;
12 }
```

### Isi prak5.h :



```
File Edit Selection View Go Run Terminal Help
prak5.h - ALPRO - Visual Studio Code

C:\prak5.cpp U h prak5.h U x
Pertemuan 5 > Kegiatan > h prak5.h > ulang_rekursif(int)
1 #include <iostream>
2 #include <conio.h>
3 using namespace std;
4 class perulangan {
5     private:
6         int n;
7     public:
8         perulangan() { n = 4; }
9         void ulang_for(int n);
10        int ulang_rekursif(int n);
11 };
12
13 void perulangan::ulang_for(int n)
14 {
15     for (int i = 1; i <= n; i++)
16     {
17         cout << i << " ";
18         getch();
19     }
20 }
21
22 int perulangan::ulang_rekursif(int n)
23 {
24     if (n==0)
25     {
26         return 0;
27     }
28     else
29     {
30         cout << n << " ";
31         getch();
32         return ulang_rekursif(n-1);
33     }
34 }
```

```
Pertemuan 5 > Kegiatan > h prak5.h > ulang_rekursif(int)
9 void ulang_for(int n);
10 int ulang_rekursif(int n);
11 };
12
13 void perulangan::ulang_for(int n)
14 {
15     for (int i = 1; i <= n; i++)
16     {
17         cout << i << " ";
18         getch();
19     }
20 }
21
22
23 int perulangan::ulang_rekursif(int n)
24 {
25     if(n==0)
26     {
27         return 0;
28     }
29     else
30     {
31         cout << n << " ";
32         getch();
33         return ulang_rekursif(n-1);
34     }
35 }
36
```

## 2. Hasilnya :

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS F:\Collage\Sem 2\PRAKTIKUM\ALPRO> & 'c:\Users\user\.vscode\extensions\ms-vscode.cpptools-1.9.7\debugAdapters\bin\WindowsDebugLauncher.exe' '--stdin-Microsoft-MIEngine-In-hrftbwty.kzh' '--stdout-Microsoft-MIEngine-Out-2tpf4iml.orp' '--stderr-Microsoft-MIEngine-Error-leyaxgp.gue' '--pid-Microsoft-MIEngine-Pid-q3rxgujo.d4y'
Menggunakan cara iteratif
1 2 3 4
Menggunakan cara rekursif
4 3 2 1
PS F:\Collage\Sem 2\PRAKTIKUM\ALPRO>
```