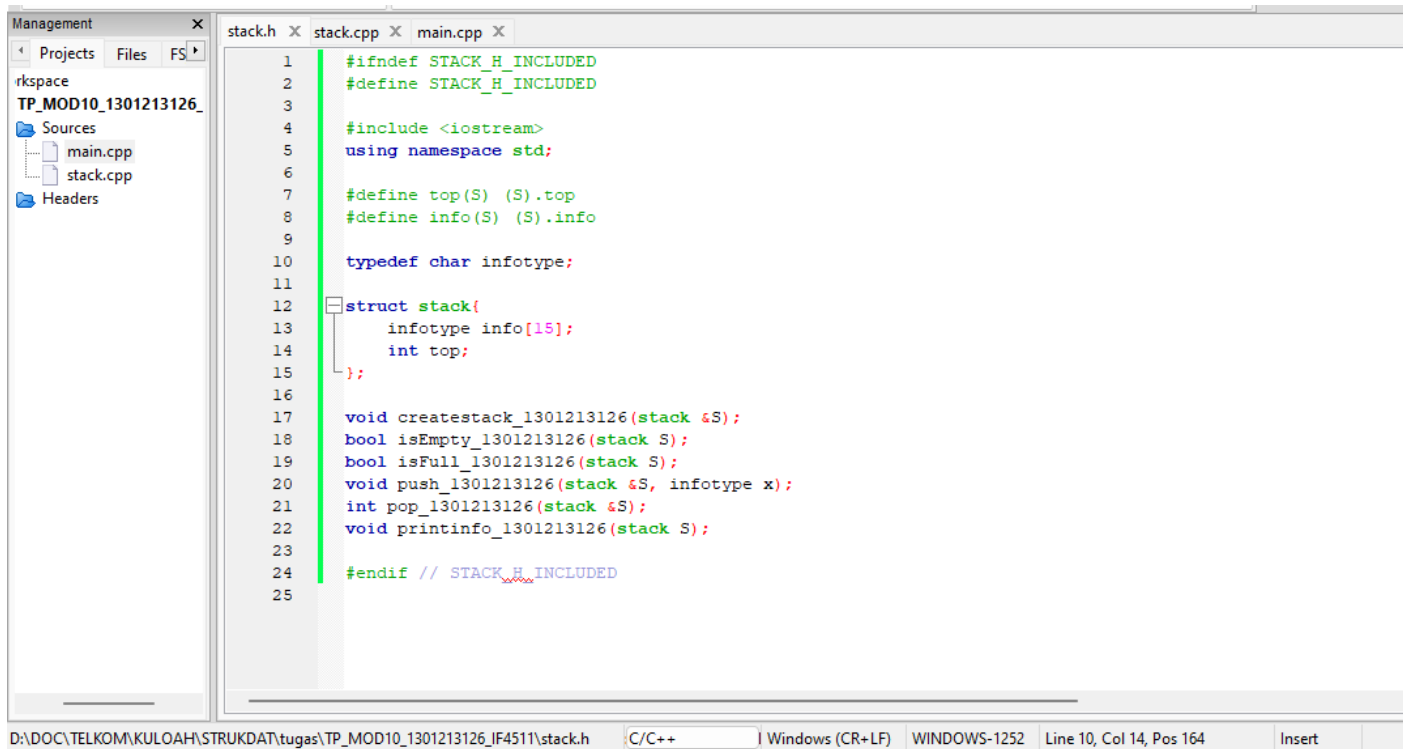


Fadhil Muhamad Pratama

IF4511

1301213126

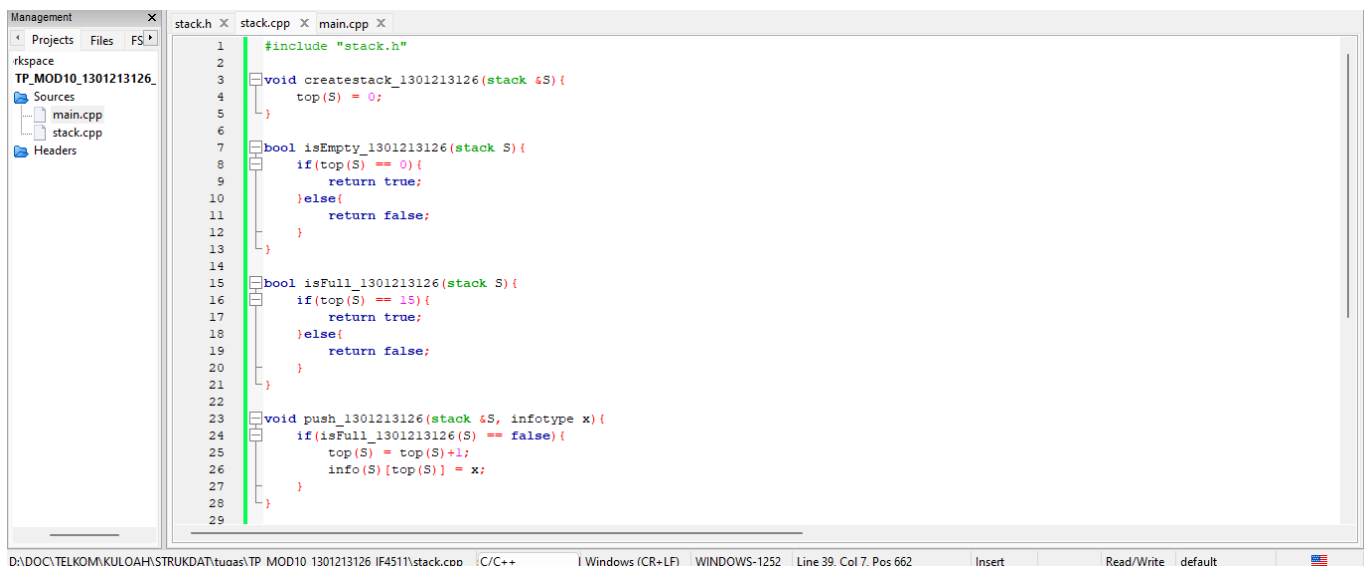
Slack.h



```
1  #ifndef STACK_H_INCLUDED
2  #define STACK_H_INCLUDED
3
4  #include <iostream>
5  using namespace std;
6
7  #define top(S) (S).top
8  #define info(S) (S).info
9
10 typedef char infotype;
11
12 struct stack{
13     infotype info[15];
14     int top;
15 };
16
17 void createstack_1301213126(stack &S);
18 bool isEmpty_1301213126(stack S);
19 bool isFull_1301213126(stack S);
20 void push_1301213126(stack &S, infotype x);
21 int pop_1301213126(stack &S);
22 void printinfo_1301213126(stack S);
23
24 #endif // STACK_H_INCLUDED
25
```

D:\DOC\TELKOM\KULOA\STRUKDAT\tugas\TP_MOD10_1301213126_IF4511\stack.h C/C++ Windows (CR+LF) WINDOWS-1252 Line 10, Col 14, Pos 164 Insert

Slack.cpp



```
1  #include "stack.h"
2
3  void createstack_1301213126(stack &S){
4      top(S) = 0;
5  }
6
7  bool isEmpty_1301213126(stack S){
8      if(top(S) == 0){
9          return true;
10     }else{
11         return false;
12     }
13 }
14
15 bool isFull_1301213126(stack S){
16     if(top(S) == 15){
17         return true;
18     }else{
19         return false;
20     }
21 }
22
23 void push_1301213126(stack &S, infotype x){
24     if(isFull_1301213126(S) == false){
25         top(S) = top(S)+1;
26         info(S)[top(S)] = x;
27     }
28 }
29
```

D:\DOC\TELKOM\KULOA\STRUKDAT\tugas\TP_MOD10_1301213126_IF4511\stack.cpp C/C++ Windows (CR+LF) WINDOWS-1252 Line 39, Col 7, Pos 662 Insert Read/Write default

The screenshot shows a C++ IDE with a project named "TP_MOD10_1301213126". The file explorer on the left shows the project structure with "Sources" containing "main.cpp" and "stack.cpp", and "Headers" containing "stack.h". The main editor window displays the code in "stack.cpp", which implements the following functions:

```
21 }
22
23 void push_1301213126(stack &S, infotype x) {
24     if(isFull_1301213126(S) == false){
25         top(S) = top(S)+1;
26         info(S)[top(S)] = x;
27     }
28 }
29
30 int pop_1301213126(stack &S) {
31     infotype x;
32     x = info(S)[top(S)];
33     top(S)=top(S)-1;
34     return x;
35 }
36
37 void printinfo_1301213126(stack S) {
38     int i;
39     if(isEmpty_1301213126(S) == true){
40         cout<<"Kosong"<<endl;
41     }else{
42         for(i = top(S); i > 0; i--){
43             cout<<info(S)[i];
44         }
45         cout<<endl;
46     }
47 }
48 }
```

The status bar at the bottom indicates the file path "D:\DOC\TELKOM\KULOAH\STRUKDAT\tugas\TP_MOD10_1301213126_IF4511\stack.cpp", the language "C/C++", and the editor settings "Windows (CR+LF)", "WINDOWS-1252", "Line 39, Col 7, Pos 662", "Insert", "Read/Write", and "default".

Main.cpp

The screenshot shows the same C++ IDE with the project "TP_MOD10_1301213126". The file explorer on the left shows the project structure with "Sources" containing "main.cpp" and "stack.cpp", and "Headers" containing "stack.h". The main editor window displays the code in "main.cpp", which implements the following function:

```
1 #include <iostream>
2 #include "stack.h"
3 using namespace std;
4
5 int main()
6 {
7     stack S;
8     createstack_1301213126(S);
9     infotype x;
10
11     x = 'I';
12     push_1301213126(S,x);
13     x = 'R';
14     push_1301213126(S,x);
15     x = 'I';
16     push_1301213126(S,x);
17     x = 'D';
18     push_1301213126(S,x);
19     x = 'A';
20     push_1301213126(S,x);
21     x = 'Y';
22     push_1301213126(S,x);
23     x = 'A';
24     push_1301213126(S,x);
25     x = 'C';
26     push_1301213126(S,x);
27     x = 'R';
28     push_1301213126(S,x);
29     x = 'E';
30 }
```

The status bar at the bottom indicates the file path "D:\DOC\TELKOM\KULOAH\STRUKDAT\tugas\TP_MOD10_1301213126_IF4511\main.cpp", the language "C/C++", and the editor settings "Windows (CR+LF)", "WINDOWS-1252", "Line 43, Col 14, Pos 839", "Insert", and "Read/Write".

```
18     push_1301213126(S,x);
19     x = 'A';
20     push_1301213126(S,x);
21     x = 'Y';
22     push_1301213126(S,x);
23     x = 'A';
24     push_1301213126(S,x);
25     x = 'C';
26     push_1301213126(S,x);
27     x = 'R';
28     push_1301213126(S,x);
29     x = 'E';
30     push_1301213126(S,x);
31     x = 'P';
32     push_1301213126(S,x);
33     printfinfo_1301213126(S);
34     pop_1301213126(S);
35     pop_1301213126(S);
36     pop_1301213126(S);
37     pop_1301213126(S);
38     pop_1301213126(S);
39     pop_1301213126(S);
40     pop_1301213126(S);
41     printfinfo_1301213126(S);
42
43     return 0;
44 }
45
```

Output

```
D:\DOC\TELKOM\KULOAH\ST x + v
PERCAYADIRI
DIRI
Process returned 0 (0x0)   execution time : 0.010 s
Press any key to continue.
|
```