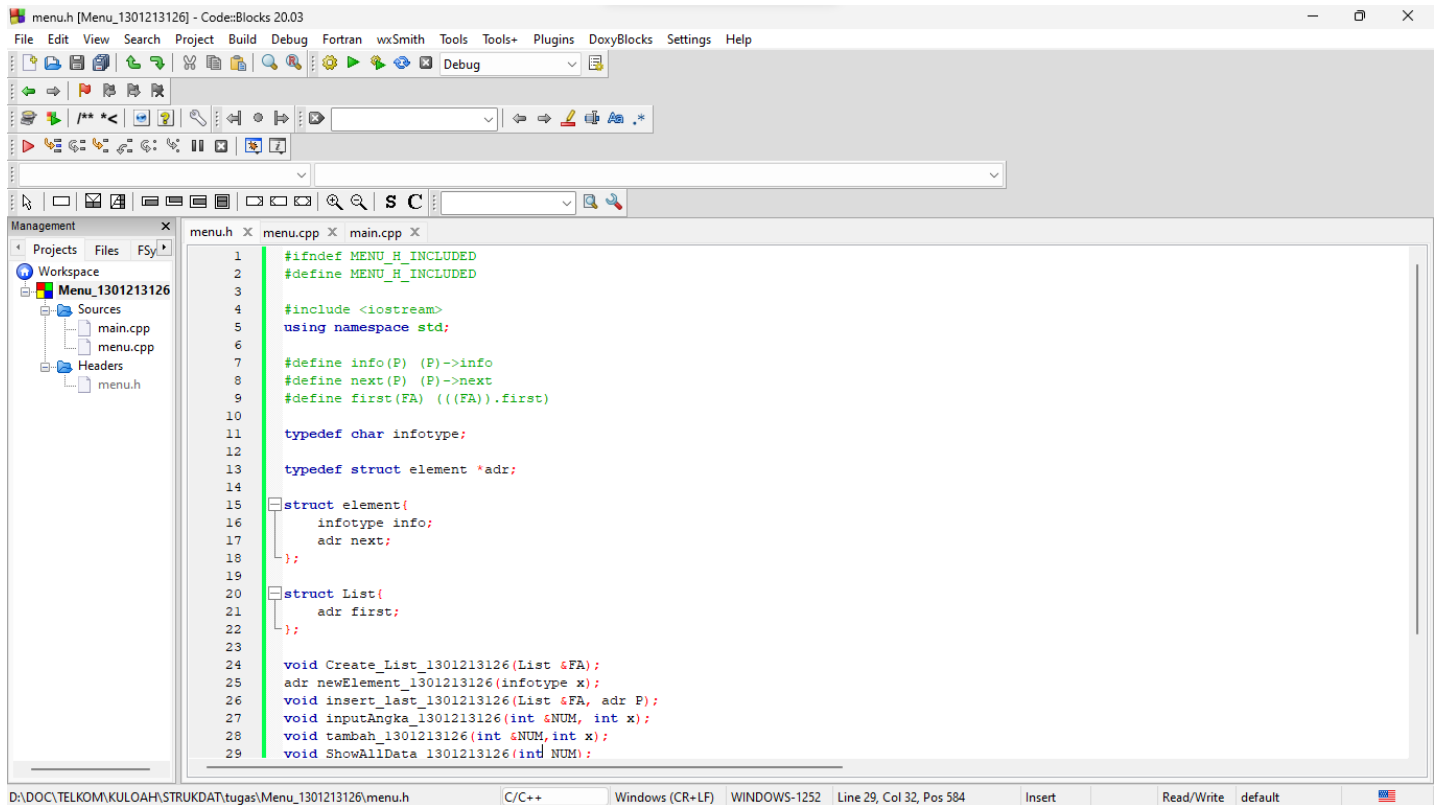


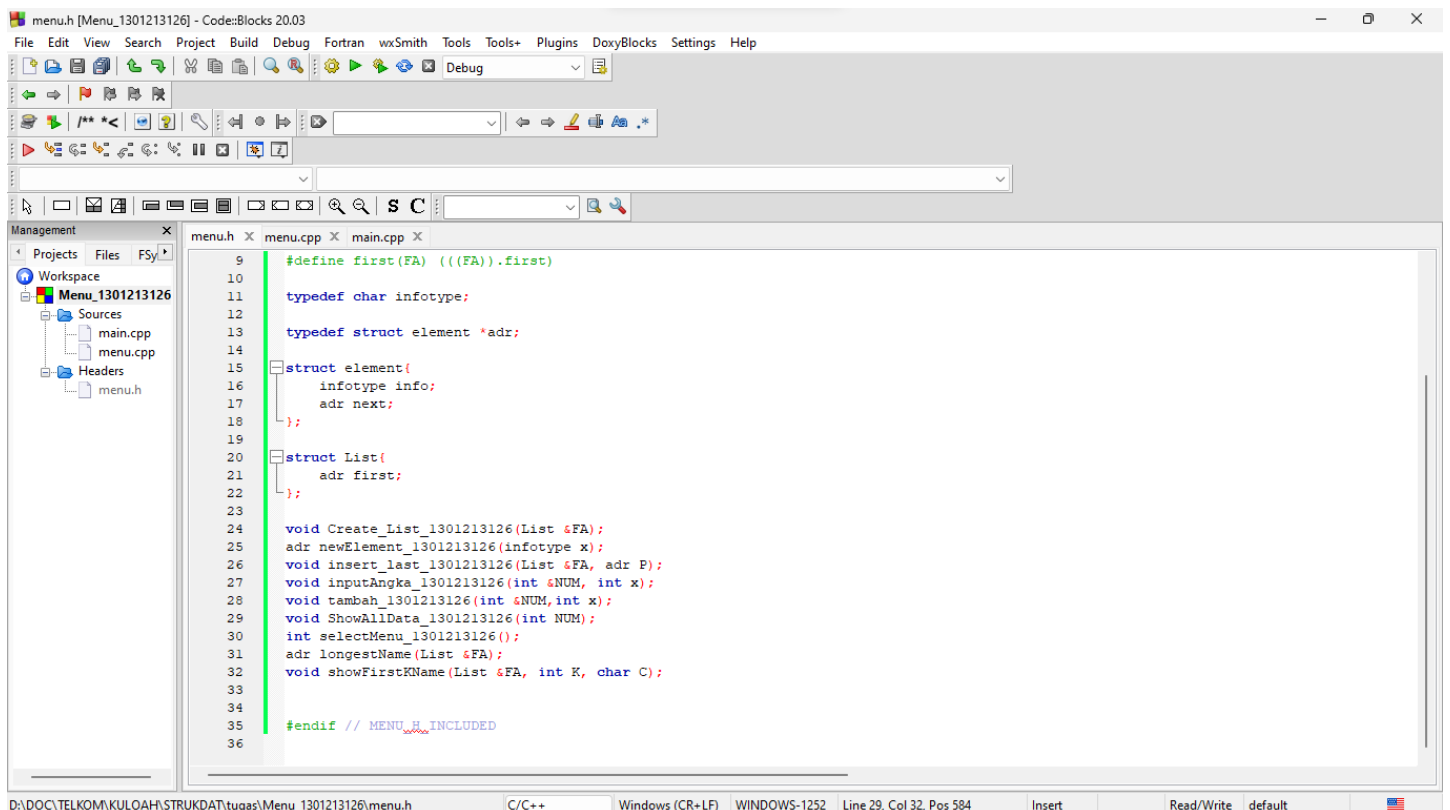
Fadhil Muhamad Pratama 1301213126

IF-45-11



The screenshot shows the Code::Blocks IDE with the file menu.h open. The left sidebar displays the project structure for 'Menu_1301213126', including 'Sources' (main.cpp, menu.cpp) and 'Headers' (menu.h). The main editor window shows the content of menu.h, which includes preprocessor directives, standard library includes, namespace declarations, typedefs for 'infotype' and 'element', and struct definitions for 'element' and 'List'. It also contains several function declarations for list management and menu operations.

```
1  #ifndef MENU_H_INCLUDED
2  #define MENU_H_INCLUDED
3
4  #include <iostream>
5  using namespace std;
6
7  #define info(P) (P)->info
8  #define next(P) (P)->next
9  #define first(FA) (((FA)).first)
10
11  typedef char infotype;
12
13  typedef struct element *adr;
14
15  struct element{
16      infotype info;
17      adr next;
18  };
19
20  struct List{
21      adr first;
22  };
23
24  void Create_List_1301213126(List &FA);
25  adr newElement_1301213126(infotype x);
26  void insert_last_1301213126(List &FA, adr P);
27  void inputAngka_1301213126(int &NUM, int x);
28  void tambah_1301213126(int &NUM, int x);
29  void ShowAllData_1301213126(int NUM);
```



This screenshot shows the same Code::Blocks IDE environment, but with the file menu.h scrolled down to show the implementation of the functions declared in the previous image. The code includes the implementation of 'first', 'infotype', 'element', and 'List' structs, and the implementation of functions like 'Create_List_1301213126', 'newElement_1301213126', 'insert_last_1301213126', 'inputAngka_1301213126', 'tambah_1301213126', 'ShowAllData_1301213126', 'selectMenu_1301213126', 'longestName', and 'showFirstKName'. The file ends with a preprocessor directive to close the header guard.

```
9  #define first(FA) (((FA)).first)
10
11  typedef char infotype;
12
13  typedef struct element *adr;
14
15  struct element{
16      infotype info;
17      adr next;
18  };
19
20  struct List{
21      adr first;
22  };
23
24  void Create_List_1301213126(List &FA);
25  adr newElement_1301213126(infotype x);
26  void insert_last_1301213126(List &FA, adr P);
27  void inputAngka_1301213126(int &NUM, int x);
28  void tambah_1301213126(int &NUM, int x);
29  void ShowAllData_1301213126(int NUM);
30  int selectMenu_1301213126();
31  adr longestName(List &FA);
32  void showFirstKName(List &FA, int K, char C);
33
34
35  #endif // MENU_H_INCLUDED
36
```

menu.cpp [Menu_1301213126] - Code::Blocks 20.03

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Debug

<global> insert_last_1301213126(List& FA, adr P): void

Management

Projects Files FSy

Workspace

Menu_1301213126

Sources

main.cpp

menu.cpp

Headers

menu.h

```
1 #include "menu.h"
2
3 void Create_List_1301213126(List &FA) {
4     first(FA) = NULL;
5 }
6
7 adr newElement_1301213126(infotype x) {
8     adr P = new element;
9     info(P) = x;
10    next(P) = NULL;
11    return P;
12 }
13
14 void insert_last_1301213126(List &FA, adr P) {
15     adr q;
16     q = first(FA);
17     while(next(q) != NULL) {
18         q = next(q);
19     }
20     next(q) = P;
21 }
22
23 void inputAngka_1301213126(int &NUM, int x)
24 {
25     NUM = x;
26 }
27
28 void tambah_1301213126(int &NUM, int x)
29 {
30     NUM = NUM + x;
31 }
```

D:\DOC\TELKOM\KULOA\H\STRUKDAT\tugas\Menu_1301213126\menu.cpp C/C++ Windows (CR+LF) WINDOWS-1252 Line 18, Col 21, Pos 341 Insert Read/Write default

menu.cpp [Menu_1301213126] - Code::Blocks 20.03

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Debug

<global> insert_last_1301213126(List& FA, adr P): void

Management

Projects Files FSy

Workspace

Menu_1301213126

Sources

main.cpp

menu.cpp

Headers

menu.h

```
25
26
27 void tambah_1301213126(int &NUM, int x)
28 {
29     NUM = NUM + x;
30 }
31
32 void ShowAllData_1301213126(int NUM)
33 {
34     cout<<"Nilai saat ini : " << NUM << endl;
35 }
36
37 int selectMenu_1301213126()
38 {
39     cout<<"==== MENU =====<<endl;
40     cout<<"1. Menambah N data baru" <<endl;
41     cout<<"2. Menampilkan semua data" << endl;
42     cout<<"3. Longest Name" <<endl;
43     cout<<"4. showFirstName" <<endl;
44     cout<<"0. Exit" <<endl;
45     cout<<"Masukkan menu: ";
46
47     int input = 0;
48     cin >> input;
49
50     return input;
51 }
52
```

D:\DOC\TELKOM\KULOA\H\STRUKDAT\tugas\Menu_1301213126\menu.cpp C/C++ Windows (CR+LF) WINDOWS-1252 Line 18, Col 21, Pos 341 Insert Read/Write default

main.cpp [Menu_1301213126] - Code::Blocks 20.03

File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

Debug

<global>

Management

Projects Files FSy

Workspace

Menu_1301213126

Sources

main.cpp

menu.cpp

Headers

menu.h

```
5 int NUM = 0, pilihan = 0, x;  
6  
7 pilihan = selectMenu_1301213126();  
8 while(pilihan != 0){  
9     switch(pilihan){  
10         case 1 :  
11             cout << "Jumlah data yang akan ditambahkan:";  
12             cin >> x;  
13             inputAngka_1301213126(NUM, x);  
14             break;  
15  
16         case 2 :  
17             ShowAllData_1301213126(NUM);  
18             break;  
19  
20         case 3 :  
21             cout << "Masukkan data baru:";  
22             cin >> x;  
23             tambah_1301213126(NUM, x);  
24             break;  
25         }  
26  
27         pilihan = selectMenu_1301213126();  
28     }  
29     cout << "ANDA TELAH KELUAR DARI PROGRAM" << endl;  
30     return 0;  
31 }  
32
```

D:\DOC\TELKOM\KULOA\H\STRUKDAT\tugas\Menu_1301213126\main.cpp C/C++ Windows (CR+LF) WINDOWS-1252 Line 1, Col 18, Pos 17 Insert Read/Write default

main.cpp [Menu_1301213126] - Code::Blocks 20.03

File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

Debug

<global>

Management

Projects Files FSy

Workspace

Menu_1301213126

Sources

main.cpp

menu.cpp

Headers

menu.h

```
1 #include "menu.h"  
2  
3 int main()  
4 {  
5     int NUM = 0, pilihan = 0, x;  
6  
7     pilihan = selectMenu_1301213126();  
8     while(pilihan != 0){  
9         switch(pilihan){  
10             case 1 :  
11                 cout << "Jumlah data yang akan ditambahkan:";  
12                 cin >> x;  
13                 inputAngka_1301213126(NUM, x);  
14                 break;  
15  
16             case 2 :  
17                 ShowAllData_1301213126(NUM);  
18                 break;  
19  
20             case 3 :  
21                 cout << "Masukkan data baru:";  
22                 cin >> x;  
23                 tambah_1301213126(NUM, x);  
24                 break;  
25             }  
26  
27             pilihan = selectMenu_1301213126();  
28         }  
29         cout << "ANDA TELAH KELUAR DARI PROGRAM" << endl;  
30     }  
31 }
```

D:\DOC\TELKOM\KULOA\H\STRUKDAT\tugas\Menu_1301213126\main.cpp C/C++ Windows (CR+LF) WINDOWS-1252 Line 1, Col 18, Pos 17 Insert Read/Write default

D:\DOC\TELKOM\KULOAH\STRUKDAT\tugas\Menu_1301213126\bin\Debug\Menu_1301213126.exe

==== MENU ====

1. Menambah N data baru
2. Menampilkan semua data
3. Longest Name
4. showFirstName
0. Exit

Masukkan menu: 1

Jumlah data yang akan ditambahkan:3

==== MENU ====

1. Menambah N data baru
2. Menampilkan semua data
3. Longest Name
4. showFirstName
0. Exit

Masukkan menu: 0

ANDA TELAH KELUAR DARI PROGRAM

Process returned 0 (0x0) execution time : 9.697 s

Press any key to continue.