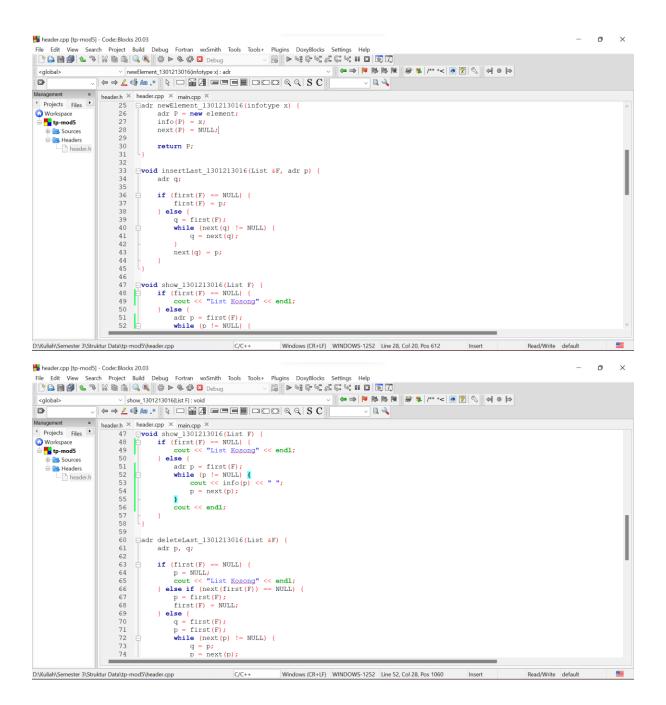
## Header.h

## Header.cpp

```
🕌 header.cpp [tp-mod5] - Code::Blocks 20.03
                                                                                                                   0
B
Management × header.h × header.cpp × main.cpp ×

1 #include "header.h"
                  🚹 tp-mod5
                       Sources
Headers
header.h
                 10
11
12
13
14
15
16
17
                        cout << "Pilihan menu: ";
                        int input = 0;
cin >> input;
                        cout << endl;
                 18
19
20
21
                        return input;
                    pvoid createList_1301213016(List &F) {
    first(F) = NULL;
                 23
                 24
25
26
27
28
                    padr newElement_1301213016(infotype x) {
    adr P = new element;
    info(P) = x;
    next(P) = NULL;
D:\Kuliah\Semester 3\Struktur Data\tp-mod5\header.cpp
                                        C/C++
                                                  Windows (CR+LF) WINDOWS-1252 Line 117, Col 25, Pos 2366 Insert
                                                                                                     Read/Write default
```



```
H header.cpp [tp-mod5] - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
 E3
Workspace

☐ tp-mod5
                             if (first(F) == NULL) {
   Sources
Headers
header.h
                              if (first(F) == NULL) {
   p = NULL;
   cout << "List Kosong" << endl;
) else if (next(first(F)) == NULL) {
   p = first(F);
   first(F) = NULL;
}</pre>
                     64
65
66
67
68
69
70
71
72
73
74
75
76
77
80
                             first(E);
q = first(F);
p = first(F);
while (next(p) != NULL) {
    q = p;
    p = next(p);
}
                                  next(q) = NULL;
                              return p;
                     81
                     82
                         □double vocalPersentage_1301213016(List F) (
                     82
83
84
85
86
87
                              double x = 0, y =
adr p = first(F);
                                                 0, persentase = 0
                              while (p != NULL) {
Windows (CR+LF) WINDOWS-1252 Line 74, Col 25, Pos 1544 Insert
                                                                                                                           Read/Write default
🕌 header.cpp [tp-mod5] - Code::Blocks 20.03
                                                                                                                                            o
                                                                                                                                                  ×
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Debug

Debug

Debug
                                                                         3
                                                                                  ~ Q 4
Management × header.h × header.cpp × main.cpp ×
  Projects Files
                     81
Sources
Headers
header.h
                     87
                     88
89
90
91
                                  if (info(p) == 'a' || info(p) == 'A' || info(p) == 'e' || info(p) == 'E' || info(p) == 'i' || info(p) == 'I' |
                                 x++;
                     92
93
94
95
96
97
98
99
                                  p = next(p);
                              persentase = ((y/x) * 100.0);
                    100
101
102
                              return persentase;
                    103
                         pvoid showLastK_1301213016(List F, int k) {
    int i = 0, 1 = 0;
    adr p = first(F);
    adr q = first(F);
                    104
                    104
105
106
107
108
Windows (CR+LF) WINDOWS-1252 Line 86, Col 24, Pos 1746 Insert
                                                                                                                           Read/Write default
```

```
H header.cpp [tp-mod5] - Code::Blocks 20.03
  File Edit View Search Project Build Debug Fortran ws5mith Tools Tools+ Plugins DoxyBlocks Settings Help

| Company |
                                                                                                                                                                                                                                                                                              E3
                                                                                                                                                                                                                                                                                                                                   V Q 4
  Management × header.h × header.cpp × main.cpp ×
        Projects Files
                                                                              100
101
102
103
   Workspace

☐ tp-mod5
                                                                                                 Sources
Headers
header.h
                                                                               104
                                                                               105
106
107
108
                                                                                                                       int i = 0, l = 0;
adr p = first(F);
adr q = first(F);
                                                                                                                        while (p != NULL) {
                                                                                109
                                                                                                                     1++;
p = next(p);
                                                                                110
                                                                                111
112
113
114
                                                                                                                 if (1 >= k) {
   while (i < (1-k)) {
     i++;
     q = next(q);
}</pre>
                                                                               115
116
117
118
119
                                                                                                                      cout << info(q) << " " << endl;
else if (k > 1) {
   cout << "Nilai K lebih besar dari panjang list" << endl;
}</pre>
                                                                                120
                                                                                121
                                                                                                                       } else {
cout << "List Kosong" << endl;
                                                                               121
122
123
124
125
126
D:\Kuliah\Semester 3\Struktur Data\tp-mod5\header.cpp
                                                                                                                                                                                                                                                 Windows (CR+LF) WINDOWS-1252 Line 107, Col 22, Pos 2202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Read/Write default
```

## Main.cpp

```
🎳 main.cpp [tp-mod5] - Code::Blocks 20.03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0
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| Solution | Sol
                                                                                                                                                                                                                                                                                                        B
                                                                                                                                                                                                                                                                                                                                            V Q 4
 Management × | header.h × header.cpp × main.cpp × |

1 #include "header.h" |

2 #include <iostream>
3
           Sources
Headers
header.h
                                                                                        6 =int main()
                                                                                                                         int pilihan = 0;
List F;
adr p;
                                                                                     10
11
12
13
14
15
16
17
                                                                                                                      createList_1301213016(F);
                                                                                                                       pilihan = selectMenu_1301213016();
                                                                                                                       while (pilihan != 0) {
    switch(pilihan) {
                                                                                                                             case 1:
int i, jumlah;
char data;
                                                                                     18
19
20
21
22
23
                                                                                     25
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28
                                                                                                                                                     cout << "Jumlah data yang akan ditambahkan: ";
cin >> jumlah;
                                                                                                                                                          while (i < jumlah) {
   cout << "Masukkan data baru: ";</pre>
D:\Kuliah\Semester 3\Struktur Data\tp-mod5\main.cpp
                                                                                                                                                                              C/C++ Windows (CR+LF) WINDOWS-1252 Line 48, Col 23, Pos 973
                                                                                                                                                                                                                                                                                                                                                                                                                                                Insert
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```

```
main.cpp [tp-mod5] - Code::Blocks 20.03
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| Company |
                                                                                                                                                                                               <global>
                                                        main(): int
                                      E3
                                                                                                                                                                                                                      V Q 4
 Management x header.h X header.cpp X main.cpp X
                                                      26
27
28
29
30
     Projects Files
 Workspace
tp-mod5
Sources
Headers
header.h
                                                                                            while (i < jumlah) {
   cout << "Masukkan data baru: ";
   cin >> data;
                                                       31
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33
34
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41
42
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50
51
                                                                                                         p = newElement_1301213016(data);
insertLast_1301213016(F, p);
                                                                                                  cout << endl;
                                                                                        case 2:
show 1301213016(F);
                                                                                                  cout << endl;
break;
                                                                                       case 3:
double d;
                                                                                                   d = vocalPersentage 1301213016(F);
cout << "Persentase huruf vokal di dalam list: " << d << "%" << endl;</pre>
                                                       52
53
                                                                                         case 4: int k;
D:\Kuliah\Semester 3\Struktur Data\tp-mod5\main.cpp
                                                                                                              C/C++
                                                                                                                                                              Windows (CR+LF) WINDOWS-1252 Line 28, Col 48, Pos 544
                                                                                                                                                                                                                                                                                                                              Read/Write default
🎳 main.cpp [tp-mod5] - Code::Blocks 20.03
                                                                                                                                                                                                                                                                                                                                                                            o
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Debug

Debug

Debug
                                                                                                                                                                                                3
                                                                                                                                                                                                                      V Q 4
 Management × header.h × header.cpp × main.cpp × cout << end1;
                                                                                             break;
  51
52
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54
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56
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58
59
60
61
                                                                                         case 4: int k;
       Sources
Headers
header.h
                                                                                            cout << "Masukka nilai K: ";
cin >> k;
                                                                                                showLastK_1301213016(F, k);
                                                                                                cout << endl;
                                                                                     break;
                                                       62
63
64
65
66
67
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71
72
73
74
75
76
77
                                                                                         char kembali;
                                                                                         cout << "Kembali ke menu utama? (Y/N): ";
cin >> kembali;
                                                                                          cout << endl;
                                                                                        if (kembali == 'Y') {
    pilihan = selectMenu_1301213016();
} else {
    pilihan = 0;
}
D:\Kuliah\Semester 3\Struktur Data\tp-mod5\main.cpp
                                                                                                                               C/C++
                                                                                                                                                              Windows (CR+LF) WINDOWS-1252 Line 28, Col 48, Pos 544 Insert
                                                                                                                                                                                                                                                                                                                              Read/Write default
```

## Output

