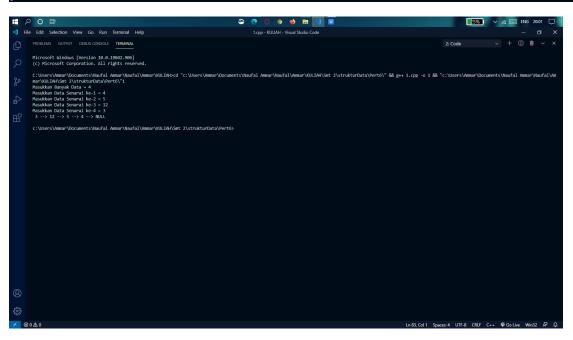
```
#include <iostream>
#include <stdlib.h>
#include <malloc.h>
using namespace <a href="std">std</a>;
#define Nil NULL
#define info(P) P->info
#define next(P) P->next
#define First(L) (L)
typedef int InfoType;
cypedef struct termtlist *address;
cypedef struct termtlist
    InfoType info;
    address next;
 elmtlist;
cypedef address list;
void CiptaSenarai(<u>list</u> *L)
    First(*L) = Nil;
list NodBaru(int m)
    <u>list</u> n;
    n = (list)malloc(sizeof(elmtlist));
    if (n != NULL)
        info(n) = m;
        next(n) - Nil;
void SisipSenarai(list *L, list t, list p)
    if (p == Nil)
        t->next = p->next;
void CetakSenarai(list L)
```

## 2E Teknik Informatika

```
list ps;
   for (ps = L; ps != Nil; ps = ps->next)
        cout << " " << info(ps) << " -->";
   cout << " NULL" << endl;</pre>
int main()
   list pel;
   list n;
   int i, k, nilai;
   CiptaSenarai(&pel);
   cout << "Masukkan Banyak Data = ";</pre>
   cin >> k;
   for (i = 1; i \le k; i++)
       cin >> nilai;
       n = NodBaru(nilai);
        SisipSenarai(&pel, n, NULL);
   CetakSenarai(pel);
   return 0;
```

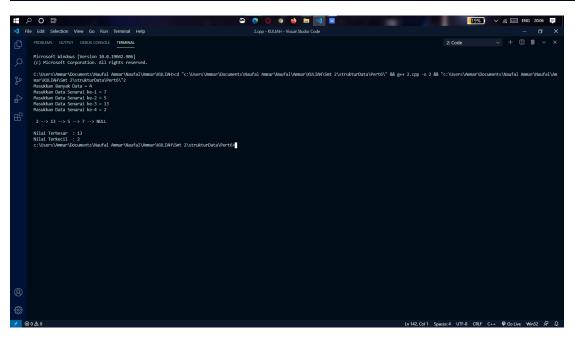


## 2E Teknik Informatika

```
#include <iostream>
#include <stdlib.h>
#include <malloc.h>
#include <conio.h>
using namespace std;
#define Nil NULL
#define info(P) P->info
#define next(P) P->next
#define First(L) (L)
typedef int InfoType;
typedef struct <u>termtlist</u> *<u>address</u>;
cypedef struct termtlist
    InfoType info;
    address next;
 elmtlist;
cypedef address list;
void CiptaSenarai(<u>list</u> *L)
    First(*L) = Nil;
list NodBaru(int m)
    list n;
    n = (list)malloc(sizeof(elmtlist));
    if (n != NULL)
        info(n) = m;
        next(n) - Nil;
void SisipSenarai(list *L, list t, list p)
    if (p == Nil)
void CetakSenarai(list L)
    list ps;
```

```
for (ps = L; ps != Nil; ps = ps->next)
         cout << " " << info(ps) << " -->";
    cout << " NULL" << endl;</pre>
\underline{\mathsf{InfoType}} \; \mathsf{Max}(\underline{\mathsf{list}} \; L)
    address Pmax, Pt;
    Pmax = First(L);
    if (next(Pmax) == Nil)
        return (info(Pmax));
         Pt = next(Pmax);
        while (Pt != Nil)
             if (info(Pmax) < info(Pt))</pre>
                  Pmax = Pt;
                  Pt = next(Pt);
         return (info(Pmax));
InfoType Min(list L)
    address Pmin, Pt;
    Pmin = First(L);
    if (next(Pmin) == Nil)
        return (info(Pmin));
         Pt = next(Pmin);
         while (Pt != Nil)
             if (info(Pmin) > info(Pt))
                  Pmin = Pt;
                  Pt = next(Pt);
```

```
return (info(Pmin));
int main(int argc, char const *argv[])
    list pel;
    list n;
   int i, k, nilai, maks, min;
   CiptaSenarai(&pel);
    cout << "Masukkan Banyak Data = ";</pre>
    cin >> k;
    for (i = 1; i \le k; i++)
        cout << "Masukkan Data Senarai ke-" << i << " = ";</pre>
        cin >> nilai;
        n = NodBaru(nilai);
        SisipSenarai(&pel, n, NULL);
   cout << endl;</pre>
   CetakSenarai(pel);
   maks = Max(pel);
   min = Min(pel);
    cout << endl;</pre>
    cout << "Nilai Terbesar\t: " << maks << endl</pre>
         << "Nilai Terkecil\t: " << min;</pre>
```



```
#include <stdio.h>
#include <iostream>
#include <conio.h>
#include <stdlib.h>
using namespace std;
struct <u>TNode</u>
    int data;
    TNode *next;
TNode *head, *tail;
void init()
    head = NULL;
    tail = NULL;
int isEmpty()
    if (tail == NULL)
        return 1;
        return 0;
void insertDepan(int databaru)
    TNode *baru;
    baru = new TNode;
    baru->data = databaru;
    baru->next = NULL;
    if (isEmpty() == 1)
        head = tail = baru;
        tail->next = NULL;
        baru->next = head;
        head = baru;
    cout << "Data masuk\n";</pre>
void tampil()
    TNode *bantu;
    bantu = head;
    if (isEmpty() == 0)
```

```
while (bantu != NULL)
            cout << bantu->data << " ";</pre>
        cout << "Masih kosong\n";</pre>
void hapusDepan()
    TNode *hapus;
    if (isEmpty() == 0)
        if (head != tail)
            hapus = head;
            d = hapus->data;
            head = head->next;
            delete hapus;
            d = tail->data;
            head = tail = NULL;
        cout << d << " terhapus";</pre>
        cout << "Masih kosong\n";</pre>
void clear()
    TNode *bantu, *hapus;
    bantu = head;
    while (bantu != NULL)
        hapus = bantu;
        bantu = bantu->next;
        delete hapus;
    head = NULL;
    printf("clear");
main()
    int pil, databaru;
        system("cls");
```

```
cout << endl;</pre>
cout << " = PROGRAM LINKED LIST =" << endl;</pre>
cout << " ========= " << endl;
                                =" << endl;
=" << endl;
cout << " = 1. Insert Depan</pre>
cout << " = 2. Delete Depan</pre>
                                  =" << endl;
cout << " = 3. Tampil Data</pre>
cout << " = 4. Clear</pre>
                                  =" << endl;
cout << " = 5. Exit
                                  =" << endl;
cout << " ========== " << endl;</pre>
cout << " Masukan Pilihan : ";</pre>
cin >> pil;
switch (pil)
case 1:
   system("cls");
       cout << "Masukan Data = ";</pre>
       cin >> databaru;
       insertDepan(databaru);
   system("cls");
       hapusDepan();
case 3:
   system("cls");
       tampil();
   system("cls");
       clear();
   system("cls");
       return 0;
   system("cls");
       cout << "\n Maaf, Pilihan yang anda pilih tidak tersedia!";</pre>
```

