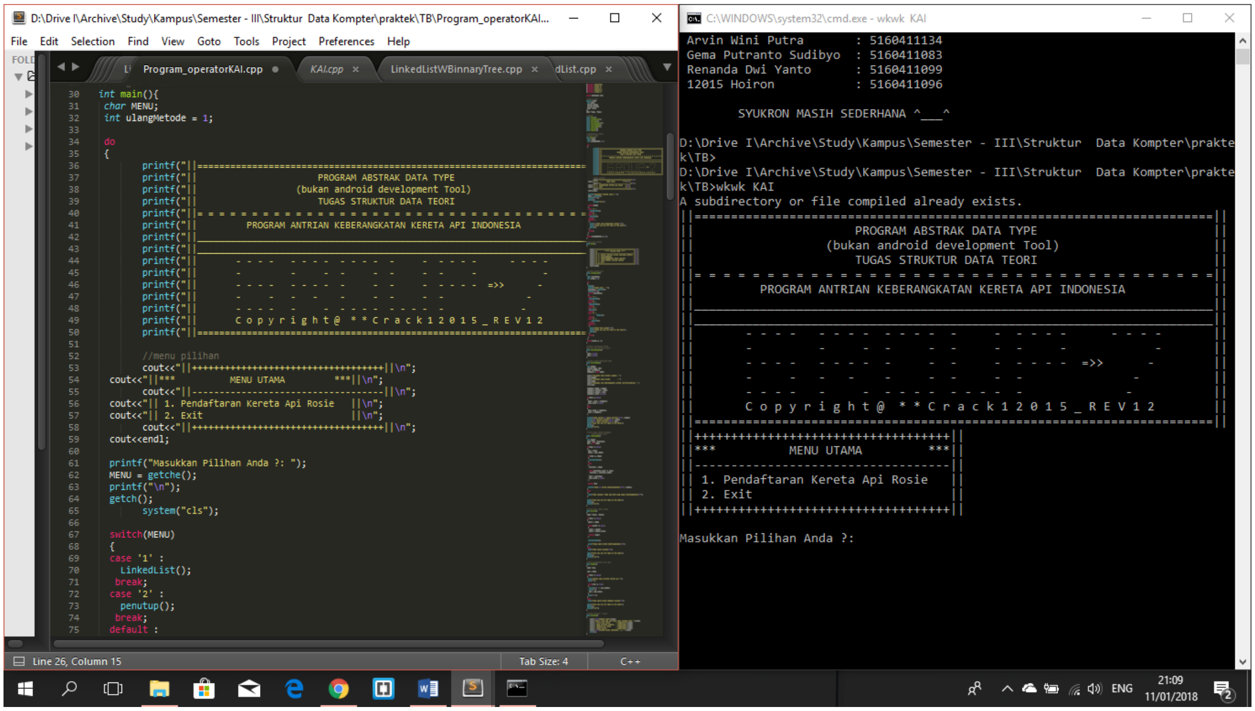
I. MAIN PROGRAM :

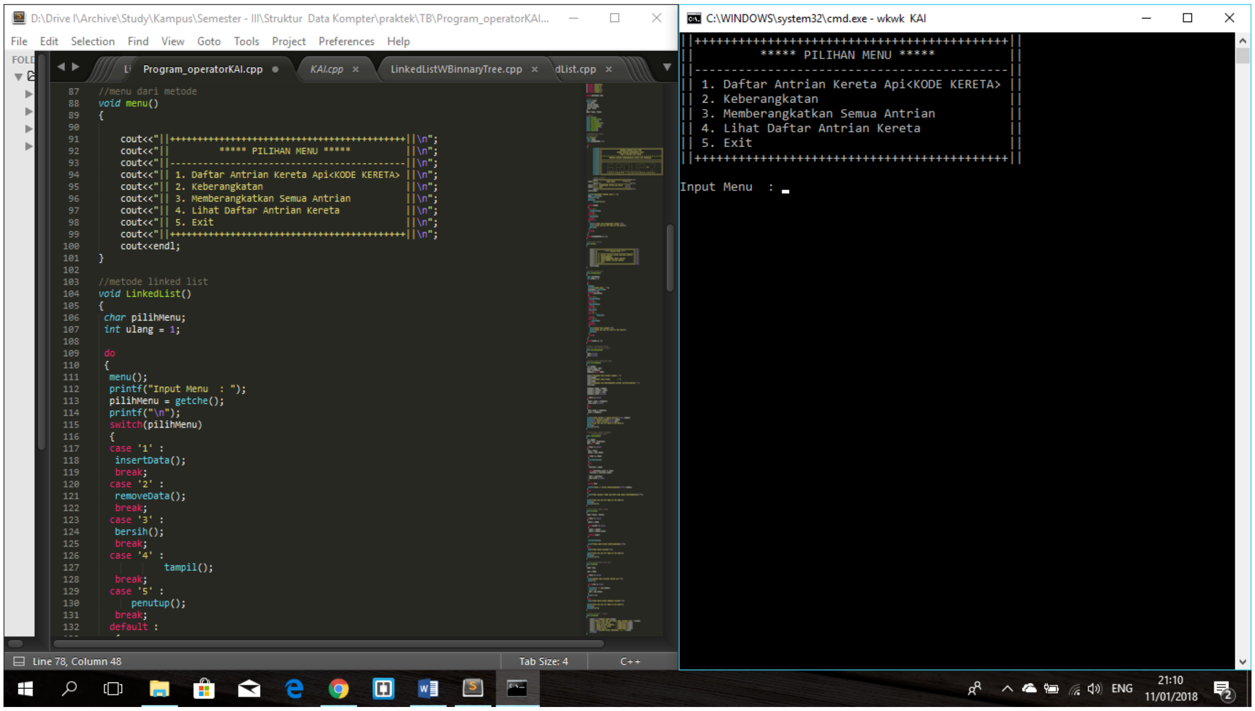


D:\Drive I\Archive\Study\Kampus\Semester - III\Struktur Data Kompter\praktek\TB\Program_operatorKAI...
File Edit Selection Find View Goto Tools Project Preferences Help
Program_operatorKAI.cpp
KAI.cpp
LinkedListWBinnaryTree.cpp
dList.cpp
Line 26, Column 15
Tab Size: 4
C++
C:\WINDOWS\system32\cmd.exe - wkwk KAI
ENG
21:09
11/01/2018

```
int main(){
 char MENU;
 int ulangMetode = 1;

 do
 {
        printf("||==========================================================================
        printf("||                          PROGRAM ABSTRAK DATA TYPE
        printf("||                      (bukan android development Tool)
        printf("||                          TUGAS STRUKTUR DATA TEORI
        printf("||= = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = =
        printf("||            PROGRAM ANTRIAN KEBERANGKATAN KERETA API INDONESIA
        printf("||__________________________________________________________________________
        printf("||__________________________________________________________________________
        printf("||        - - - -  - - - -  - - - -  -     -  - - - -      - - - -
        printf("||        -         -      -  -     -  -     -  -     -           -
        printf("||        - - - -  - - - -  -     -  -     -  - - - -  =>>      -
        printf("||        -    -    -   -    -     -  -     -  -               -
        printf("||        - - - -   -     -  - - - -  - - - -  -              -
        printf("||        C o p y r i g h t @  * * C r a c k 1 2 0 1 5 _ R E V 1 2
        printf("||==========================================================================

        //menu pilihan
        cout<<"||+++++++++++++++++++++++++++++++++++||\n";
  cout<<"||***          MENU UTAMA          ***||\n";
        cout<<"||-----------------------------------||\n";
  cout<<"|| 1. Pendaftaran Kereta Api Rosie   ||\n";
  cout<<"|| 2. Exit                           ||\n";
        cout<<"||+++++++++++++++++++++++++++++++++++||\n";
  cout<<endl;

  printf("Masukkan Pilihan Anda ?: ");
  MENU = getche();
  printf("\n");
  getch();
        system("cls");

  switch(MENU)
  {
  case '1' :
    LinkedList();
   break;
  case '2' :
    penutup();
   break;
  default :
```

```
 Arvin Wini Putra         : 5160411134
 Gema Putranto Sudibyo    : 5160411083
 Renanda Dwi Yanto        : 5160411099
 12015 Hoiron             : 5160411096

       SYUKRON MASIH SEDERHANA ^___^

D:\Drive I\Archive\Study\Kampus\Semester - III\Struktur  Data Kompter\prakte
k\TB>
D:\Drive I\Archive\Study\Kampus\Semester - III\Struktur  Data Kompter\prakte
k\TB>wkwk KAI
A subdirectory or file compiled already exists.
||=======================================================================||
||                        PROGRAM ABSTRAK DATA TYPE                      ||
||                    (bukan android development Tool)                   ||
||                        TUGAS STRUKTUR DATA TEORI                      ||
||= = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = =||
||         PROGRAM ANTRIAN KEBERANGKATAN KERETA API INDONESIA            ||
||_______________________________________________________________________||
||_______________________________________________________________________||
||      - - - -  - - - -  - - - -  -     -  - - - -      - - - -         ||
||      -         -      -  -     -  -     -  -     -           -        ||
||      - - - -  - - - -  -     -  -     -  - - - -  =>>      -          ||
||      -    -    -   -    -     -  -     -  -               -           ||
||      - - - -   -     -  - - - -  - - - -  -              -            ||
||      C o p y r i g h t @  * * C r a c k 1 2 0 1 5 _ R E V 1 2        ||
||=======================================================================||
||+++++++++++++++++++++++++++++++++++||
||***          MENU UTAMA          ***||
||-----------------------------------||
|| 1. Pendaftaran Kereta Api Rosie   ||
|| 2. Exit                           ||
||+++++++++++++++++++++++++++++++++++||

Masukkan Pilihan Anda ?:
```

II. MAIN MENU :

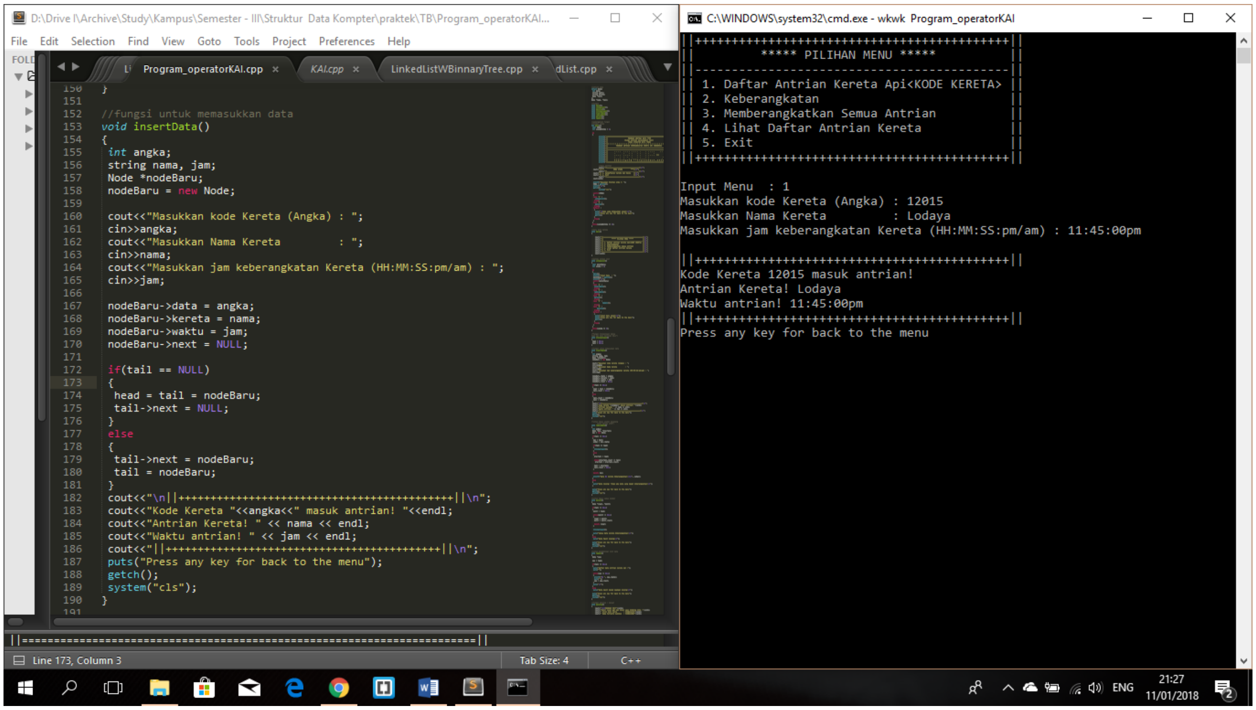


D:\Drive I\Archive\Study\Kampus\Semester - III\Struktur Data Kompter\praktek\TB\Program_operatorKAI...
File Edit Selection Find View Goto Tools Project Preferences Help
Program_operatorKAI.cpp
KAI.cpp
LinkedListWBinnaryTree.cpp
dList.cpp
Line 78, Column 48
Tab Size: 4
C++
C:\WINDOWS\system32\cmd.exe - wkwk KAI
ENG
21:10
11/01/2018

```
//menu dari metode
void menu()
{

    cout<<"||+++++++++++++++++++++++++++++++++++++++++++||\n";
    cout<<"||           ***** PILIHAN MENU *****         ||\n";
    cout<<"||-------------------------------------------||\n";
    cout<<"|| 1. Daftar Antrian Kereta Api<KODE KERETA> ||\n";
    cout<<"|| 2. Keberangkatan                          ||\n";
    cout<<"|| 3. Memberangkatkan Semua Antrian          ||\n";
    cout<<"|| 4. Lihat Daftar Antrian Kereta            ||\n";
    cout<<"|| 5. Exit                                   ||\n";
    cout<<"||+++++++++++++++++++++++++++++++++++++++++++||\n";
    cout<<endl;
}

//metode linked list
void LinkedList()
{
 char pilihMenu;
 int ulang = 1;

 do
 {
  menu();
  printf("Input Menu  : ");
  pilihMenu = getche();
  printf("\n");
  switch(pilihMenu)
  {
  case '1' :
   insertData();
   break;
  case '2' :
   removeData();
   break;
  case '3' :
   bersih();
   break;
  case '4' :
                tampil();
   break;
  case '5' :
     penutup();
   break;
  default :
```

```
||+++++++++++++++++++++++++++++++++++++++++++||
||          ***** PILIHAN MENU *****          ||
||-------------------------------------------||
|| 1. Daftar Antrian Kereta Api<KODE KERETA> ||
|| 2. Keberangkatan                          ||
|| 3. Memberangkatkan Semua Antrian          ||
|| 4. Lihat Daftar Antrian Kereta            ||
|| 5. Exit                                   ||
||+++++++++++++++++++++++++++++++++++++++++++||

Input Menu  : _
```

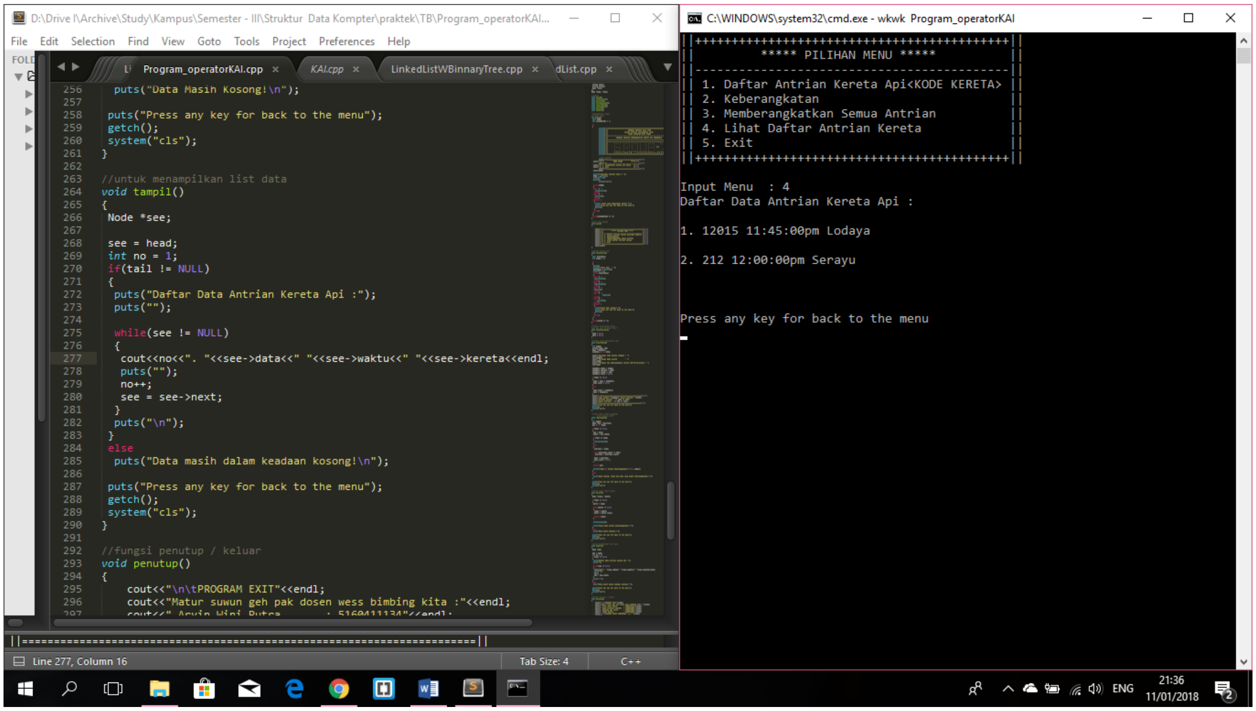
III. Push


D:\Drive I\Archive\Study\Kampus\Semester - III\Struktur Data Kompter\praktek\TB\Program_operatorKAI...
File Edit Selection Find View Goto Tools Project Preferences Help
Program_operatorKAI.cpp
KAI.cpp
LinkedListWBinnaryTree.cpp
dList.cpp
Line 173, Column 3
Tab Size: 4
C++
C:\WINDOWS\system32\cmd.exe - wkwk Program_operatorKAI
ENG
21:27
11/01/2018

```cpp
}

//fungsi untuk memasukkan data
void insertData()
{
 int angka;
 string nama, jam;
 Node *nodeBaru;
 nodeBaru = new Node;

 cout<<"Masukkan kode Kereta (Angka) : ";
 cin>>angka;
 cout<<"Masukkan Nama Kereta         : ";
 cin>>nama;
 cout<<"Masukkan jam keberangkatan Kereta (HH:MM:SS:pm/am) : ";
 cin>>jam;

 nodeBaru->data = angka;
 nodeBaru->kereta = nama;
 nodeBaru->waktu = jam;
 nodeBaru->next = NULL;

 if(tail == NULL)
 {
  head = tail = nodeBaru;
  tail->next = NULL;
 }
 else
 {
  tail->next = nodeBaru;
  tail = nodeBaru;
 }
 cout<<"\n||+++++++++++++++++++++++++++++++++++++++++++||\n";
 cout<<"Kode Kereta "<<angka<<" masuk antrian! "<<endl;
 cout<<"Antrian Kereta! " << nama << endl;
 cout<<"Waktu antrian! " << jam << endl;
 cout<<"||+++++++++++++++++++++++++++++++++++++++++++||\n";
 puts("Press any key for back to the menu");
 getch();
 system("cls");
}
```

```
||+++++++++++++++++++++++++++++++++++++++++++||
||          ***** PILIHAN MENU *****         ||
||-------------------------------------------||
|| 1. Daftar Antrian Kereta Api<KODE KERETA> ||
|| 2. Keberangkatan                          ||
|| 3. Memberangkatkan Semua Antrian          ||
|| 4. Lihat Daftar Antrian Kereta            ||
|| 5. Exit                                   ||
||+++++++++++++++++++++++++++++++++++++++++++||

Input Menu  : 1
Masukkan kode Kereta (Angka) : 12015
Masukkan Nama Kereta         : Lodaya
Masukkan jam keberangkatan Kereta (HH:MM:SS:pm/am) : 11:45:00pm

||+++++++++++++++++++++++++++++++++++++++++++||
Kode Kereta 12015 masuk antrian!
Antrian Kereta! Lodaya
Waktu antrian! 11:45:00pm
||+++++++++++++++++++++++++++++++++++++++++++||
Press any key for back to the menu
```

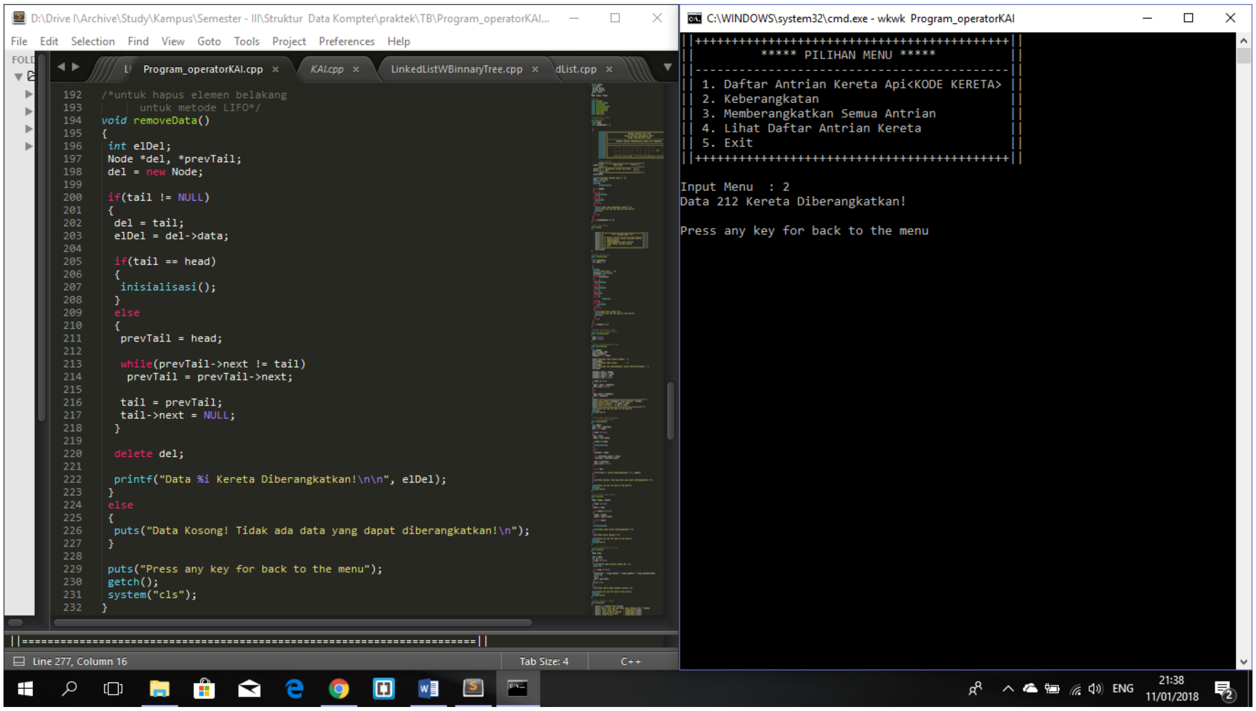
IV. Showing All Element


D:\Drive I\Archive\Study\Kampus\Semester - III\Struktur Data Kompter\praktek\TB\Program_operatorKAI...
File Edit Selection Find View Goto Tools Project Preferences Help
Program_operatorKAI.cpp
KAI.cpp
LinkedListWBinnaryTree.cpp
dList.cpp
Line 277, Column 16
Tab Size: 4
C++
C:\WINDOWS\system32\cmd.exe - wkwk Program_operatorKAI
ENG
21:36
11/01/2018

```cpp
  puts("Data Masih Kosong!\n");

 puts("Press any key for back to the menu");
 getch();
 system("cls");
}

//untuk menampilkan list data
void tampil()
{
 Node *see;

 see = head;
 int no = 1;
 if(tail != NULL)
 {
  puts("Daftar Data Antrian Kereta Api :");
  puts("");

  while(see != NULL)
  {
   cout<<no<<". "<<see->data<<" "<<see->waktu<<" "<<see->kereta<<endl;
   puts("");
   no++;
   see = see->next;
  }
  puts("\n");
 }
 else
  puts("Data masih dalam keadaan kosong!\n");

 puts("Press any key for back to the menu");
 getch();
 system("cls");
}

//fungsi penutup / keluar
void penutup()
{
    cout<<"\n\tPROGRAM EXIT"<<endl;
    cout<<"Matur suwun geh pak dosen wess bimbing kita :"<<endl;
    cout<<" Arvin Wini Putra        : 5160411134"<<endl;
```

```
||+++++++++++++++++++++++++++++++++++++++++++||
||          ***** PILIHAN MENU *****         ||
||-------------------------------------------||
|| 1. Daftar Antrian Kereta Api<KODE KERETA> ||
|| 2. Keberangkatan                          ||
|| 3. Memberangkatkan Semua Antrian          ||
|| 4. Lihat Daftar Antrian Kereta            ||
|| 5. Exit                                   ||
||+++++++++++++++++++++++++++++++++++++++++++||

Input Menu  : 4
Daftar Data Antrian Kereta Api :

1. 12015 11:45:00pm Lodaya

2. 212 12:00:00pm Serayu



Press any key for back to the menu
```

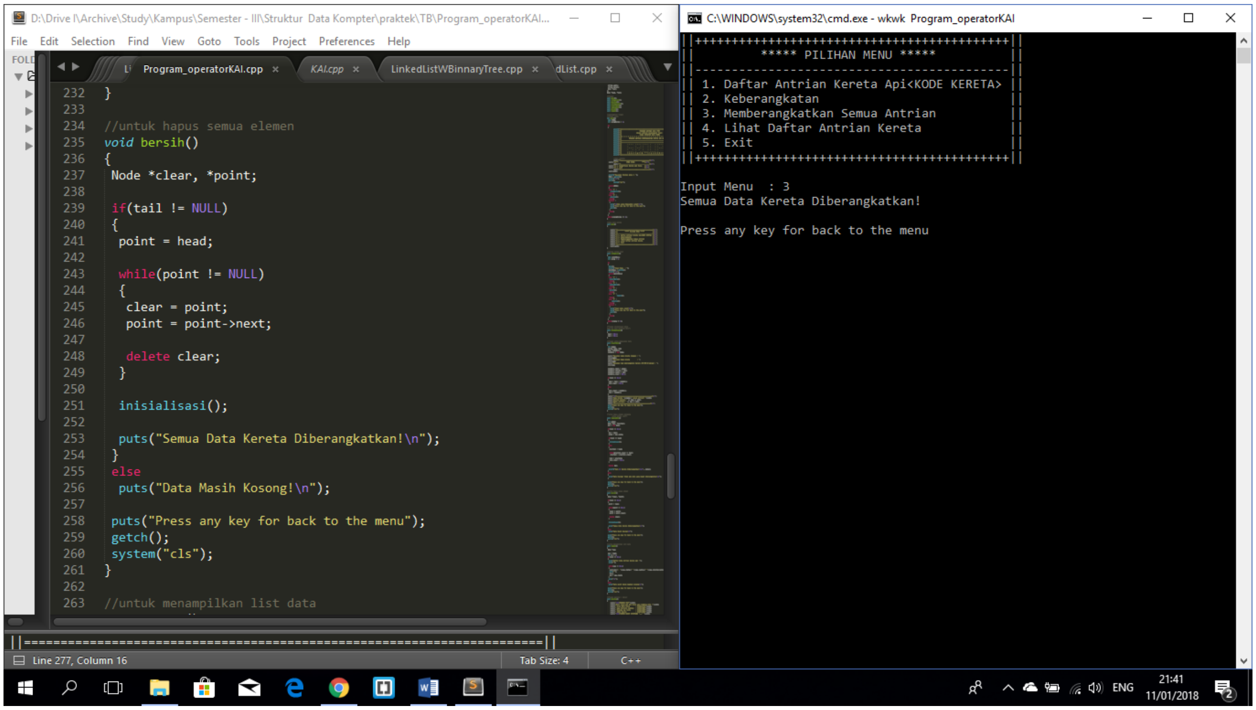
V. Pop Stack Linkedlist one-by-one


D:\Drive I\Archive\Study\Kampus\Semester - III\Struktur Data Kompter\praktek\TB\Program_operatorKAI...
File Edit Selection Find View Goto Tools Project Preferences Help
Program_operatorKAI.cpp
KAI.cpp
LinkedListWBinnaryTree.cpp
dList.cpp
Line 277, Column 16
Tab Size: 4
C++
C:\WINDOWS\system32\cmd.exe - wkwk Program_operatorKAI
ENG
21:38
11/01/2018

```cpp
/*untuk hapus elemen belakang
    untuk metode LIFO*/
void removeData()
{
 int elDel;
 Node *del, *prevTail;
 del = new Node;

 if(tail != NULL)
 {
  del = tail;
  elDel = del->data;

  if(tail == head)
  {
   inisialisasi();
  }
  else
  {
   prevTail = head;

   while(prevTail->next != tail)
    prevTail = prevTail->next;

   tail = prevTail;
   tail->next = NULL;
  }

  delete del;

  printf("Data %i Kereta Diberangkatkan!\n\n", elDel);
 }
 else
 {
  puts("Data Kosong! Tidak ada data yang dapat diberangkatkan!\n");
 }

 puts("Press any key for back to the menu");
 getch();
 system("cls");
}
```

```
||+++++++++++++++++++++++++++++++++++++++++++||
||         ***** PILIHAN MENU *****          ||
||-------------------------------------------||
|| 1. Daftar Antrian Kereta Api<KODE KERETA> ||
|| 2. Keberangkatan                          ||
|| 3. Memberangkatkan Semua Antrian          ||
|| 4. Lihat Daftar Antrian Kereta            ||
|| 5. Exit                                   ||
||+++++++++++++++++++++++++++++++++++++++++++||

Input Menu  : 2
Data 212 Kereta Diberangkatkan!

Press any key for back to the menu
```

VI. Pop All Stack


D:\Drive I\Archive\Study\Kampus\Semester - III\Struktur Data Kompter\praktek\TB\Program_operatorKAI...
File Edit Selection Find View Goto Tools Project Preferences Help
Program_operatorKAI.cpp
KAI.cpp
LinkedListWBinnaryTree.cpp
dList.cpp
Line 277, Column 16
Tab Size: 4
C++
C:\WINDOWS\system32\cmd.exe - wkwk Program_operatorKAI
ENG
21:41
11/01/2018

```cpp
}

//untuk hapus semua elemen
void bersih()
{
 Node *clear, *point;

 if(tail != NULL)
 {
  point = head;

  while(point != NULL)
  {
   clear = point;
   point = point->next;

   delete clear;
  }

  inisialisasi();

  puts("Semua Data Kereta Diberangkatkan!\n");
 }
 else
  puts("Data Masih Kosong!\n");

 puts("Press any key for back to the menu");
 getch();
 system("cls");
}

//untuk menampilkan list data
```

```
||+++++++++++++++++++++++++++++++++++++++++++||
||         ***** PILIHAN MENU *****          ||
||-------------------------------------------||
|| 1. Daftar Antrian Kereta Api<KODE KERETA> ||
|| 2. Keberangkatan                          ||
|| 3. Memberangkatkan Semua Antrian          ||
|| 4. Lihat Daftar Antrian Kereta            ||
|| 5. Exit                                   ||
||+++++++++++++++++++++++++++++++++++++++++++||

Input Menu  : 3
Semua Data Kereta Diberangkatkan!

Press any key for back to the menu
```