```
Tugas 2 STD
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 SLL.h
 #ifndef SLL_H_INCLUDED
 # define SLL-H_INCLUDED
# Include <10 stream>
# Include < string >
 using namespice Std)
Struct dokter {
  String kode;
  string name;
typedef Struct dokter Infotype;
type det struct elmList *adr;
Struct elmList F
  Infotype Info;
  adr Next;
```

```
Struct List &
   adr first;
 Z
 Void Create_List ( List *L);
  adt New_Elemen(String Lode, String name);
 Void Insert_first (LIS+ *L, adr p);
 Void Insert_Last (List *L, adr P);
 void Insert-After (LIST * L, adr prec, adr p);
 Void Delete_first (List*L, ddr p);
 Void Delete_Last (List ≠ L, adr p);
 Void Delete_After(List XL, adr prec, adr p);
 Void show (LIST L);
#endif
SLL.CPP
#Include "SLL.h"
 Vond Create_List (List *L) §
L→FIR+ = NUll;
adr New_Elemen (String kode, string nama) {
   Cout << "Executing New_Elevier" << kide << " - " << name << end );
  adr p = new elimlist;
  P-> Info. kode = kode )
```

```
P -> next = Null;
  return p;
void Insert-first (List *L, odrp) (
  Cout << " Executing Incert- first " << end < & end |;
   p-) next = L> First;
   L+FIRSt = P;
   P = Null ;
4
Void Insert_Last (List * L, adr P) &
    cout << "Executing Insert_Last" << end a end);
    If (L= First |= Null) of
      adr temp = L > first;
      while (temp -> next (= Null) $
         temp = temp > next;
     temp=) next = p;
      P = Null ,
   Jelse S
     Insert - First (L,P);
Void Insert_After (List #1, adr prec, adr p) &
   Cout < " Executing Insert_ After" LL end;
   If (L>first 1= Null) of
```

```
adr temp = L → first;
      while (temp -> info. Kode != prec -> info. Kode) of
          if(temp → Next == NULL) {
         temp = temp -> next;
      P→next = temp -> next;
     temp - next = ?;
Void Delete_first (List *L, adr p) {
    Cout « "Executing Delete_first" << endl;
    if (L > First != Null) S
      P= L→ FITA;
       L> first = P-> next;
       P> next = Null;
      detele p;
    9 e14 {
       cout << "worning: Empty List" << endl;
     Cout << end);
Hoid Delete Last (List * L, adr P) {
  Cout << "Executing Dalete Last" << endl;
   If ( L>FIRST (= NULL) S
```

```
P=L->INS;
     If (P>next == NUll) {
        Delete_Last (LP);
     3 else s
       adr temp = p > next;
       While Ctemp > next 1= NUII) $
          P = temp ;
         temp = temp -> next;
       P>next = NUll;
       delete temp;
  Jelse &
      Cout & " warning: Empty List" & endl;
   Cout << endl;
Void Delete-After (List xL, adr prec, adr p) &
   COUT << " Executing Delete-After" << endl;
   If (L>first 1= Null) of
      adr temp = L → first;
      while (temp -) info. Kode 1= prec -> info. Kode) of
          if (temp -> next == NULL) {
            return;
```

```
temp = temp -> next;
     p = prec > next
     Prec - next = P -> next;
     P -> nex = NULL;
Void Show ( LIST L) &
  Cout << " Executing show " « and );
  IF( L.First [= NUII) }
    adr p = L.FIrst;
    myle (b = NON) {
      Cout << p→ info. kode << 1 - 1 << p→ info. nama << endl;
   Pr P> next;
  Cout << endl;
Main . CPP
int main() &
   LIST MMRA;
   Infotype data;
   Creqte_List (MMRA);
   adr p = New-elemen ("001", "Rahsien salim");
   Insert_first L&MMRA, P);
```

```
adr p = New-demen ("002", "Muhammed fadil Maulane Akhor");
Insk_Last (&MMRA, P);
out p = New-elemen ("002", "Muhammed Pagli Ramedha");
Insert_First (&MMPA,1);
adr P = New - elemen ("004", a shata Diva Syahira");
Insert - Last C&MMRA, P);
Show (MMRA);
Delete_first (&MMRA);
Delete - last ( kL,P);
Show (MMRA);
```