

## Percobaan 7 : Menghapus simpul pada linked list

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

struct simpul
{
    char nama[25];
    int nrp;
    struct simpul *next;
};

struct simpul *ujung=NULL;

void create();
void tampil ();
struct simpul *cari(int nrpcari);
void hapus();

main()
{
    int pil, pktcari;
    struct simpul *hslcari;
    char jawab[2];
    while(1)
    {
        printf("Pilihan : \n");
        printf("1. Membuat linked list. \n");
        printf("2. Menampilkan. \n");
        printf("3. Mencari. \n");
        printf("4. Menghapus. \n");
        printf("5. Menambah di akhir. \n");
        printf("6. Menambah setelah simpul tertentu. \n");
        printf("7. Menambah sebelum simpul tertentu. \n");
        printf("Masukkan Pilihan Anda : ");
        scanf("%d",&pil);
        switch (pil){
            case 1:
                create();
                break;
            case 2:
                tampil();
                break;
            case 3:
                printf("Masukkan nrp data yang dicari : ");
                scanf("%d",&nrpcari);
                hslcari=cari(nrpcari);
                printf("%s %d\n",hslcari->nama, hslcari->nrp);
                break;
            case 4:
                hapus();
                break;
        }
        printf("Mau proses lagi(y/t):"); scanf("%s",&jawab);

        if((strcmp(jawab,"Y")==0)|| (strcmp(jawab,"y")==0))
        {
            continue;
        }
        else if ((strcmp(jawab,"T")==0)|| (strcmp(jawab,"t")==0))
            break;
    }
}

void create()
{
    struct simpul *tampung;
    int j=0;
    char jawab[2];
    while(1)
```

```

{
    ujung=(struct simpul *) malloc(sizeof(struct simpul));
    fflush(stdin);
    printf("Nama      :");scanf("%s",&ujung->nama);
    printf("NRP      :");scanf("%d",&ujung->nrp);
    if(j==0)
    {
        ujung->next=NULL;
        tampung=ujung;
    }
    else
    {
        ujung->next=tampung;
        tampung=ujung;
    }
    printf("Ada data lagi(y/t):"); scanf("%s",&jawab);
    if((strcmp(jawab,"Y")==0)||(strcmp(jawab,"y")==0))
    {
        ++j;continue;
    }
    else if ((strcmp(jawab,"T")==0)||(strcmp(jawab,"t")==0))
        break;
}
}

void tampil ()
{
    struct simpul *tampil;
    if (ujung==NULL)
        printf("Data Kosong!\n");
    else
    {
        tampil=ujung;
        while(tampil!=NULL)
        {
            printf("%s %d\n",tampil->nama, tampil->nrp);
            tampil=tampil->next;
        }
    }
}

struct simpul *cari(int nrpcari)
{
    struct simpul *cr;

    cr=ujung;
    while(cr->nrp!=nrpcari)
        cr=cr->next;

    return cr;
}

void hapus()
{
    int nrphps;
    struct simpul *sbl,*hps;

    printf("Masukkan nrp data yang dihapus : ");
    scanf("%d",&nrphps);

    hps=ujung;
    while(hps->nrp!=nrphps)
    {
        sbl=hps;
        hps=hps->next;
    }
    if (hps==ujung)

```

```
        ujung=ujung->next;
else
    sb1->next=hps->next;
//hps->next=NULL;
free(hps);
tampil();
}
```