LIST PROGRAM

```
#include <iostream.h>
#include <stdio.h>
#include <stdlib.h>
#include <conio.h>
#include <string.h>
struct mobil{
   char platnomor[10];
   char pemilik[30];
   char merk mobil[20];
   char keluhan[100];
   struct mobil *next;
   };
struct queue{
   mobil *head;
   int count;
   mobil *tail;
   };
int isFull(queue *queue);
int isEmpty(queue *queue);
void mobil masuk(queue *queue);
void cetak(queue *queue);
void mobilout(queue *queue);
void kosongkan(queue *queue);
void mobil2an(queue *queue);
void mobil2an out(queue *queue);
int main(){
  system("color 70");
  queue queue;
  queue.count=0;
  queue.head=NULL;
  queue.tail=NULL;
  char pilih;
  int isfull, isempty;
do{system("cls");
|"<<end1;
cout<<"
        0 0 0 0000 0
                        00000 00000 000 0000 0000
cout << " | o o o o
                                               |"<<end1;
                           0 0 0 0 0 0
                   0
                       0
                                                 |"<<end1;
cout << " | o o o oooo o
                        0
                             0 0 0 0 0 0000
cout << " | o o o o
                                             |"<<endl;
                   0
                       0
                           0 0 0
                                     0 0
cout<<" | 00 00 0000 00000 00000 0
                                             0 0000
                                                       |"<<end1;
```

```
cout<<"
cout<<"|-----|"<<endl;
          Jl. Cinta Allah, Bantul, Yogyakarta
                                |"<<end1;
cout<<"
1.Cek antrian(full/tidak)
                             |"<<endl;
cout<<"
                               |"<<end1;
cout<<"
          2.Cek antrian(kosong/tidak)
cout<<"|
          3.Kosongkan Bengkel
                              |"<<endl;
          4.Pendftaran
                           |"<<endl;
cout<<"
          5.Mobil keluar
                            |"<<end1;
cout<<"
                             |"<<end1;
cout<<"
         6.Lihat semua mobil
                          |"<<endl;
cout<<"|
          7.Exit
                         |"<<end1;
cout<<"
cout << "Silahkan Pilih Menu Di atas : ";cin >> &pilih; fflush(stdin);
if(pilih=='1'){clrscr();isfull=isFull(&queue);
     system("color 70");
     if(isfull==1){
cout<<" | Mohon Maaf, Saat ini Bengkel penuh
    ~~~~~|"<<endl:
cout << endl;
     cout << "Tekan sembarang untuk kembali ke Menu";
     getch();}
     else {
cout << " | ~~~~ | Selamat, Saat ini Bengkel tidak penuh
  ~~~~~|"<<endl;
cout << endl;
     cout<<<"Tekan sembarang untuk kembali ke Menu";</pre>
     getch();}
else if(pilih=='2'){clrscr();isempty=isEmpty(&queue);
                    system("color 70");
     if(isempty==1){
```

```
cout << "|------|" << endl;
cout << endl;
     cout<<"Tekan sembarang untuk kembali ke Menu";</pre>
     getch();}
     else {
cout << "|------|" << endl;
cout << end1;
     cout << "Tekan sembarang untuk kembali ke Menu";
      getch();}
else if(pilih=='3'){kosongkan(&queue);}
else if(pilih=='4'){mobil masuk(&queue);}
else if(pilih=='5'){mobilout(&queue); mobil2an out(&queue);}
else if(pilih=='6'){ cetak(&queue);}
}while(pilih!='7');
}
int isFull(queue *queue){
 if(queue->count==5) return 1;
  else return 0;
  }
int isEmpty(queue *queue){
 if(queue->count==0) return 1;
 else return 0;
}
void mobil masuk(queue *queue){
clrscr();
system("color 70");
 mobil *pNew;
 pNew=(mobil*)malloc(sizeof(mobil));
 if(pNew!=NULL){
 if(queue->count==5) {cout<<"Ruang Bengkel full"; getch();}
  else{
   pNew->next=NULL;
```

```
cout<<"
                   MENU REGISTRASI CUSTOMER
                                                        |"<<endl;
cout<<"|Nama Pemilik : "; scanf("%[^\n]",&pNew->pemilik);fflush(stdin);
    cout<<"|Plat Nomor : "; scanf("%[^\n]",&pNew->platnomor);fflush(stdin);
    cout << "|merk Mobil : "; scanf("%[^\n]",&pNew->merk mobil);fflush(stdin);
                   : "; scanf("%[^\n]",&pNew->keluhan);fflush(stdin);
    cout << "|Keluhan
    if(queue->count==0){
    queue->head=pNew;
     }
    else{
    queue->tail->next=pNew;
    queue->tail=pNew;
    queue->count=(queue->count)+1;
}
void mobilout(queue *queue){clrscr();
system("color 70");
  mobil *dltPtr;
  dltPtr = queue->head;
  if(queue->count == 1){
     queue->head = queue->tail =NULL;
  else {
  queue->head=queue->head->next;
  }
  queue->count--;
  free(dltPtr);
}
void cetak(queue *queue){
  mobil *pWalker;
  int i=1;
```

```
WAWAY PRINT-DRIVER COM
```

```
pWalker=queue->head;
  if(queue->count==0){printf("\nBengkel kosong");getch();}
  else{ system("cls");
  mobil2an(queue);
  gotoxy(1,7);
cout<<"
                 DAFTAR ANTRIAN CUSTOMER
                                                        |"<<end1;
while(pWalker!=NULL){
             cout << "mobil ke " << i << endl;
             cout<<"plant nomor:"<<pWalker->platnomor<<endl;</pre>
                          :"<<pWalker->pemilik<<endl;
             cout << "Pemilik
             cout << "keluhan
                             :"<<pWalker->keluhan<<endl;
             cout << endl:
             pWalker=pWalker->next; i++;
             getch();
    }
}
void kosongkan(queue *queue){
while(queue->head!=NULL){
           mobilout(queue);
           }
}
//animasi mobil2an
void mobil2an(queue *queue){
int jml;
jml=queue->count;
int a; int z=65;
int n;
       IN ");gotoxy(68,1);printf(" OUT ");
printf("
gotoxy(1,6); printf("-----
for(n=0;n<jml;n++){ //pengulangan untuk jumlah mobil
 for(a=1;a<=z;a++){//pengulangan agar mobil terlihat bergerak
int sleep(30);
gotoxy(a+2,2);printf(" ___
gotoxy(a,3);printf(" |
gotoxy(a,4);printf(" |
gotoxy(a,5);printf(" ---0----0--");
z=z-15;
```

```
WAWAY DRINT. DRIVED COM
```

```
}
void mobil2an out(queue *queue){
int jml;
jml=queue->count+1;
int a; int z=65; int y;
int n;
gotoxy(1,13);printf(" IN ");gotoxy(68,13);printf(" OUT ");
gotoxy(1,20); printf("------
for(n=0;n<jml;n++){ //pengulangan untuk jumlah mobil
 for(a=1;a<=z;a++){//pengulangan agar mobil terlihat bergerak
 gotoxy(a+2,16);printf("_____");
gotoxy(a,17);printf("| ____");
 gotoxy(a, 18);printf("|
                                                   |");
 gotoxy(a, 19);printf(" --0----0--");
 z=z-15;
getch();
for(n=0;n<=1;n++){//pengulangan ketika 1 paling depan keluar
if(jml==1){
 gotoxy(a+2,16);printf("
 gotoxy(a,17);printf("
                             ");
 gotoxy(a, 18);printf("
 gotoxy(a,19);printf("
else{
y=50; z=65;
for(n=0;n< jml-1;n++){
 for(a=y;a<=z;a++)
 int sleep(30);
 gotoxy(a+2,16);printf("_
 gotoxy(a,17);printf(" |
 gotoxy(a,18);printf(" |
 gotoxy(a, 19);printf(" ---0-----0---");
 y=y-15; z=z-15;
 getch();
```

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