

Source Code

```
#include <iostream>
#include <conio.h>
#include <windows.h>
#include <string>
#include <algorithm>
#include <iomanip>
using namespace std;

struct antri{
    int jml_antri;
    char nama[30];
    char kamera[30];
    char tipe[30];
    int harga;
    antri *next;
};

antri *head, *tail;

void queue(){

    head = new antri();
    head->jml_antri = 0;

}

bool isEmpty(){
    return (head->jml_antri == 0);
};
```

```

void panggil(antri *data){

    if(IsEmpety()){
        head-> next = tail = data;

    }else{
        tail->next = data;
        tail = data;
    }

    head->jml_antri++;
}

antri *update(int nomer){

    antri *bantu = head;
    while(nomer--) bantu = bantu->next;
    return bantu;

};

antri * panggil(){
    antri *Panggil = head;
    head = head->next;
    head->jml_antri--;
    return Panggil;
}

void delitem(string nama)

```

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{
    antri * temphead = head;
    antri * previous = NULL;
    antri * tempnext = NULL;
    while (temphead->nama != nama && temphead != NULL)
    {
        previous = temphead;
        temphead = temphead->next;
    }
    if (temphead == NULL)
    {
        cout<<"Maaf Antrian tidak ditemukan"<<endl;
    }
    else if (previous == NULL)
    {
        tempnext = temphead->next;
        head = tempnext;
        delete temphead;
    }
    else
    {
        tempnext = temphead->next;
        previous->next = tempnext;
        delete temphead;
    }
}

```

```

void cari(char tujuan[30]){
    antri *bantu = head;
    bool cari;

```

```

while((bantu= bantu->next) != NULL)
    if(strcmp(tujuan,bantu->nama)==0){
        cari = true;
        break;
    }
if(cari){
    cout<<setiosflags(ios::left)<<setw(16)<<bantu->nama;
        cout<<setiosflags(ios::left)<<setw(7)<<bantu->kamera;
        cout<<setiosflags(ios::right)<<setw(14)<<bantu->tipe;
        cout<<setiosflags(ios::right)<<setw(18)<<bantu->harga<<endl;
    }else{

        cout<<tujuan<<" tidak ada dalam antrian"<<endl;
    }
}

```

```

void input(){
    int num;
    antri *tmp = new antri();
    cout<<"Nama Pembeli : ";cin>>tmp->nama;
    cout<<"Nama Kamera : ";cin>>tmp->kamera;
    cout<<"Tipe kamera : ";cin>>tmp->tipe;
    cout<<"Harga Kamera : ";cin>>tmp->harga;
    panggil(tmp);

}

```

```

void view(){
    antri *bantu = head->next;

```

```

int i = 0;
while(bantu != NULL){
    cout<< ++i << ". ";
        cout<<setiosflags(ios::left)<<setw(16)<<bantu->nama;
        cout<<setiosflags(ios::left)<<setw(7)<<bantu->kamera;
        cout<<setiosflags(ios::right)<<setw(14)<<bantu->tipe;
        cout<<setiosflags(ios::right)<<setw(18)<<bantu->harga<<endl;
        bantu = bantu->next;
    }
}

```

```

void sorting(){

    int jumlah = head->jml_antri;
    antri *data[jumlah];
    antri *bantu = head;
    for(int i = 0; i<jumlah; i++){
        data[i] = bantu->next;
        bantu = bantu->next;
    }

    for(int i = 0; i<jumlah; i++){
        for(int j = 0; j<jumlah-1; j++){

            if(strcmp(data[j]->nama, data[j+1]->nama) > 0 )
                swap(data[j], data[j+1]);
        }
    }
}

```

```

for(int i = 0; i<jumlah; i++){

```

```

        cout<< i +1 <<" ";data[i];
        cout<<setiosflags(ios::left)<<setw(16)<<data[i]->nama;
            cout<<setiosflags(ios::left)<<setw(7)<<data[i]->kamera;
            cout<<setiosflags(ios::right)<<setw(14)<<data[i]->tipe;
            cout<<setiosflags(ios::right)<<setw(18)<<data[i]->harga<<endl;
    }
}

```

```

int submenu(){
    queue();
    int p;
    int menu;
    string value;
    do{
        system("cls");
        cout<<"Selamat datang: "<<endl;
        cout<<"1.Input pembelian kamera "<<endl;
        cout<<"2.Lihat Antrian pembeli"<<endl;
        cout<<"3.Panggil antrian pembelian kamera "<<endl;
        cout<<"4.Cari antrian "<<endl;
        cout<<"5.Sorting Antrian"<<endl;
        cout<<"6.Update Pesanan "<<endl;
        cout<<"7.Hapus salah satu"<<endl;
        cout<<"0.exit "<<endl;
        cout<<"Masukan pilihan : ";cin>>menu;
        cout<<endl;

        switch(menu){
        case 1 :
            input();

```

```

    getch();
    break;
case 2 :
    cout<<"No\tNama Pemesan\tnama Kamera\ttipe kamera\ttharga"<<endl<<endl;
    if(!IsEmpty())
        view();
    else
        cout<<"antrian masih kosong "<<endl;
    getch();
    break;
case 3:
    cout<<"Terimakasih "<<endl;
    panggil();
    getch();
    break;
case 4:
    char nama[30];
    cout<<"masukan nama pembeli yang dicari :";cin>>nama;
    cout<<"Nama Pemesan\tnama Kamera\ttipe kamera\ttharga "<<endl<<endl;
    cari(nama);
    getch();
    break;
case 5:
    cout<<" No\tNama Pemesan\tnama Kamera\ttipe kamera\ttharga "<<endl<<endl;
    sorting();
    getch();
    break;
case 6:
    int nomor;
    cout<<"Masukan nomer antrian : ";cin>>nomor;

```

```

cout<<setiosflags(ios::left)<<setw(16)<<update(nomor)->nama;
        cout<<setiosflags(ios::left)<<setw(7)<<update(nomor)->kamera;
        cout<<setiosflags(ios::right)<<setw(14)<<update(nomor)->tipe;
        cout<<setiosflags(ios::right)<<setw(18)<<update(nomor)->harga<<endl;
        if(nomor > 0 && nomor <=head->jml_antri){
            cout<<"masukan ulang nama pembeli : ";cin>>update(nomor)->nama;
            cout<<"masukan ulang nama kamera : ";cin>>update(nomor)->kamera;
            cout<<"masukan ulang tipe kamera : ";cin>>update(nomor)->tipe;
            cout<<"masukan ulang harga kamera : ";cin>>update(nomor)->harga;
            cout<<"update berhasil !"<<endl;
        }else{
            cout<<"nomor antrian tidak ditemukan";
        }
        break;
    case 7:
        cout<<"Masukkan nama: ";
        cin.ignore (10000,'\n');
        getline (cin, value);
        delitem(value);
        break;
    }
}while (menu!=0);
}

int main ()
{
    system("cls");
    int menu;
    char pilih[1];
    cout << "\n\t\t\t\t\t Welcome to UTY Camera"<<endl;
    cout << "\t\t\t\t\t =====<<endl;

```



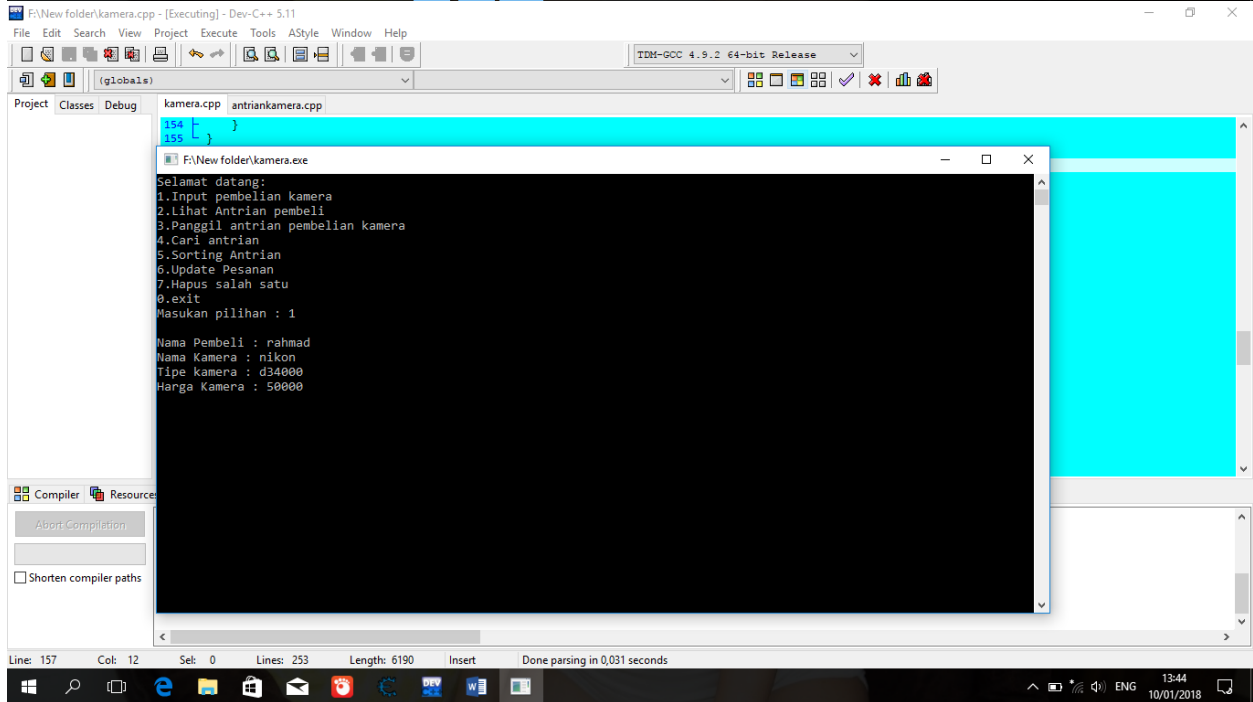
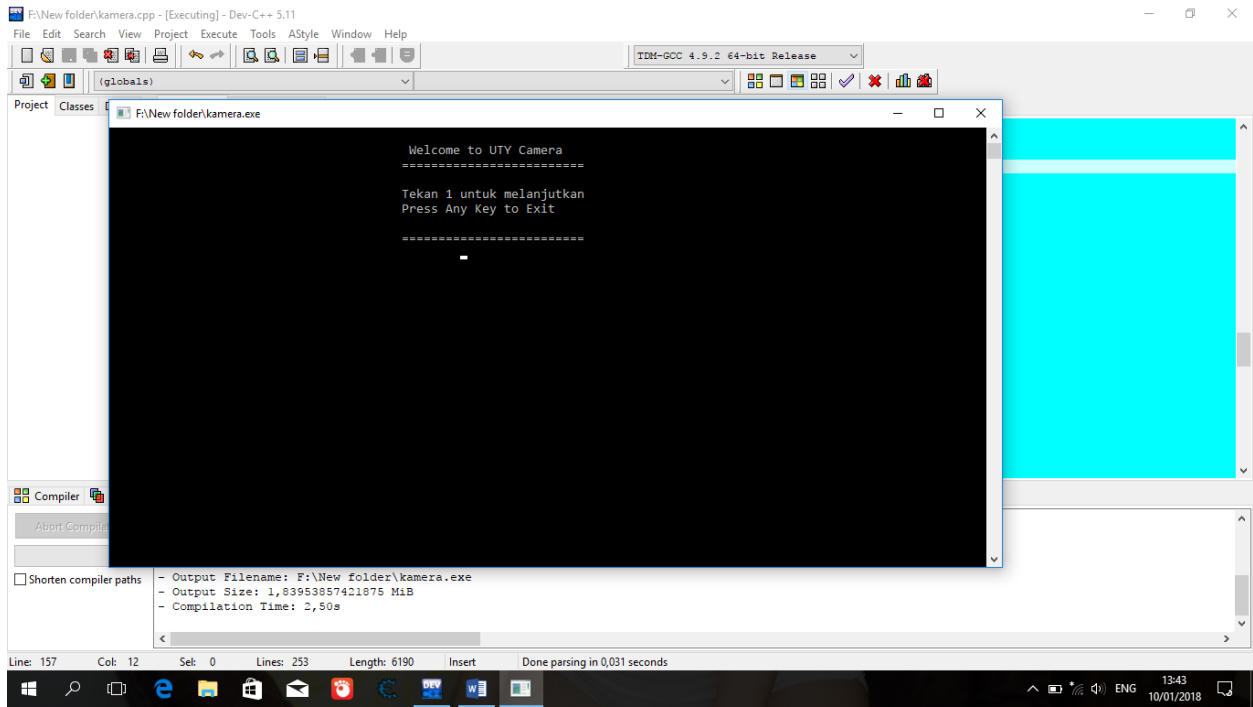
```

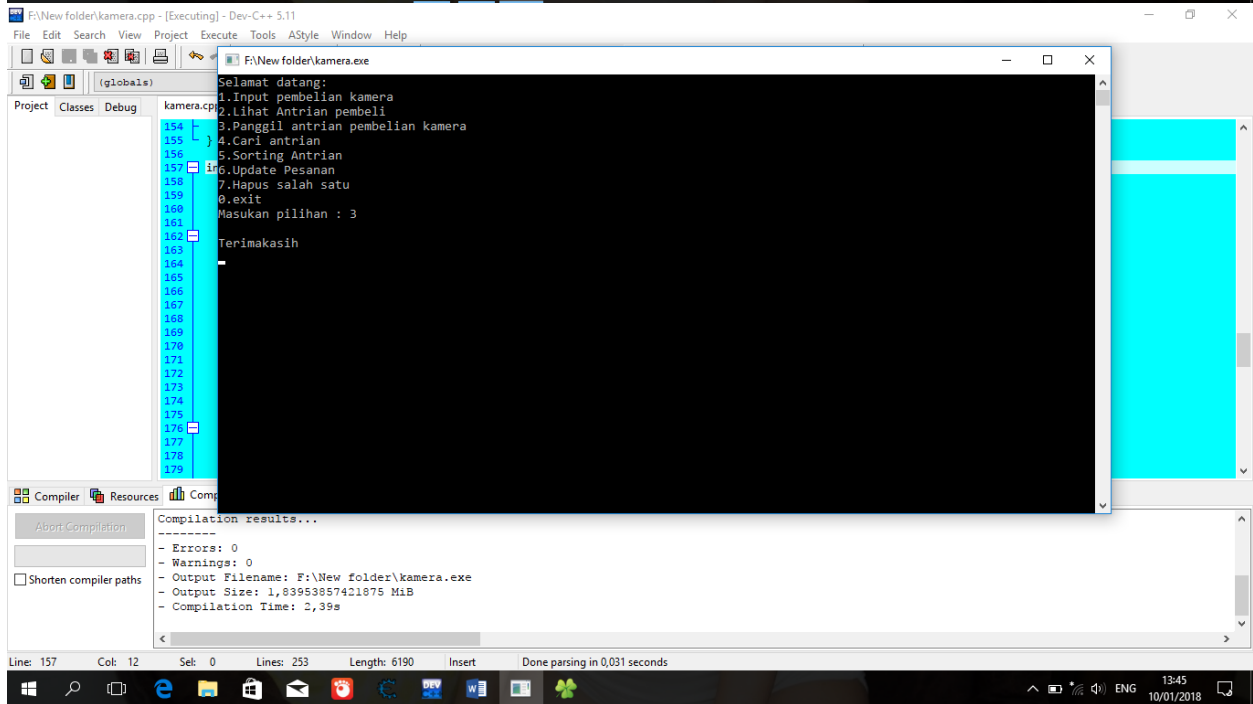
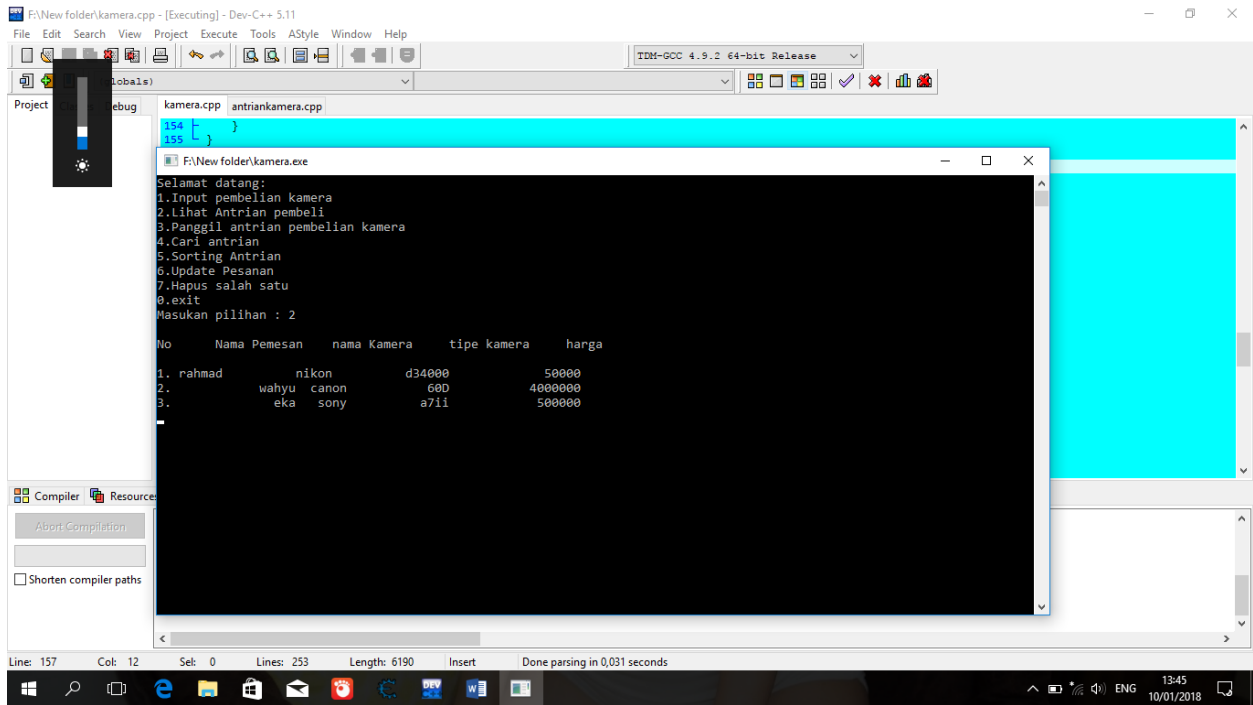
cout << "\n\t\t\t\t\tTekan 1 untuk melanjutkan"<<endl;
cout << " \t\t\t\t\tPress Any Key to Exit"<<endl;

    cout << "\n\t\t\t\t\t===== "<<endl;
    cout << "\t\t\t\t\t";
    cin>>menu;
    if (menu == 1)
    {
        submenu();
    }else
    {
        cout<<"Terimakasih";
    }
return 0;
}

```

Screenshot Output





Dev-C++ 5.11 - [Executing] - F:\New folder\kamera.cpp

Project Classes Debug

globals

Project Classes Debug

globals

154 Selamat datang:
155 1.Input pembelian kamera
156 2.Lihat Antrian pembeli
157 3.Panggil antrian pembelian kamera
158 4.Cari antrian
159 5.Sorting Antrian
160 6.Update Pesanan
161 7.Hapus salah satu
162 0.exit
163 Masukan pilihan : 4
164
165 masukan nama pembeli yang dicari : wahyu
166 Nama Pemesan nama Kamera tipe kamera harga
167 wahyu canon 600 4000000
168
169
170
171
172
173
174
175
176
177
178
179

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: F:\New folder\kamera.exe
- Output Size: 1,839,538,574,218,75 MiB
- Compilation Time: 2,39s

Line: 157 Col: 12 Sel: 0 Lines: 253 Length: 6190 Insert Done parsing in 0,031 seconds

13:46 10/01/2018

Dev-C++ 5.11 - [Executing] - F:\New folder\kamera.cpp

Project Classes Debug

globals

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globals

154 Selamat datang:
155 1.Input pembelian kamera
156 2.Lihat Antrian pembeli
157 3.Panggil antrian pembelian kamera
158 4.Cari antrian
159 5.Sorting Antrian
160 6.Update Pesanan
161 7.Hapus salah satu
162 0.exit
163 Masukan pilihan : 6
164
165 Masukan nomer antrian : 1
166 wahyu canon 600 4000000
167 masukan ulang nama pembeli : wahyudi
168 masukan ulang nama kamera : canon
169 masukan ulang tipe kamera : 600
170 masukan ulang harga kamera : 4000000
171
172
173
174
175
176
177
178
179

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: F:\New folder\kamera.exe
- Output Size: 1,839,538,574,218,75 MiB
- Compilation Time: 2,45s

Line: 157 Col: 12 Sel: 0 Lines: 253 Length: 6190 Insert Done parsing in 0,031 seconds

13:48 10/01/2018

