

Every Code file in your Project (.h and .cpp files) must be uploaded to schoology system until 16.12.2016 23:59.

## READ THIS DOCUMENT THOROUGHLY BEFORE STARTING

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# Introduction to Programming

## Project Assignment

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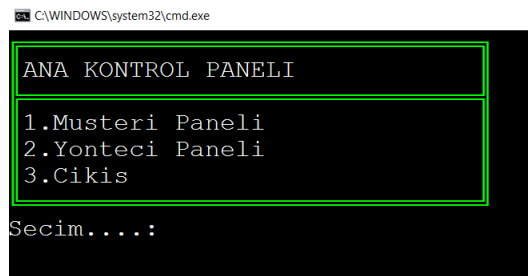
### Problem

Write a C++ program that uses file operation to manage basic store application. Sample executable link is given below

### Sample Executable File

[http://kayhanayar.com/dersler/programlamayagiris/2016/proje\\_vs2015.zip](http://kayhanayar.com/dersler/programlamayagiris/2016/proje_vs2015.zip)

### Starting Screen of the Program



```
C:\WINDOWS\system32\cmd.exe
ANA KONTROL PANELI
1.Musteri Paneli
2.Yonteci Paneli
3.Cikis
Secim....:
```

### Project Structure

You will need three different file to store three different data.

- Musteriler.txt will store customer recors
- Urunler.txt will store product records
- Islemler.txt will store transaction that customer makes.

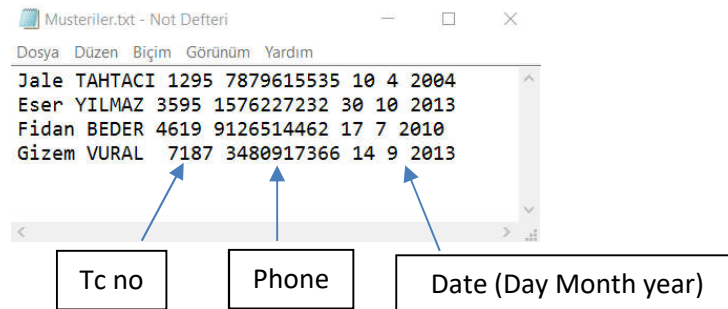
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## Musteriler.txt

In this file you are going to store the following

- First Name
- Last Name
- ID Number (TC NO- 4 digits is enough)
- Phone number
- Birth date



## Musteri Class (You can write in English if you prefer)

```
class Musteri
{
public:
    Musteri();
    void kaydet();
    string tcnoGetir();
    string telnoGetir();
    string isimGetir();
    string soyisimGetir();
    Tarih tarihGetir();

    void isimAta(string isim);
    void telnoAta(string telno);
    void tcnoAta(string tcno);
    void soyisimAta(string soyisim);
    void tarihAta(Tarih tarih);

    string tcnouret();
    string telnoUret();
private:
    string mIsim;
    string mSoyisim;
    string mTcno;
    string mTelno;
    Tarih mDogumTarihi;
};
```

You can download Musteri class files from link below

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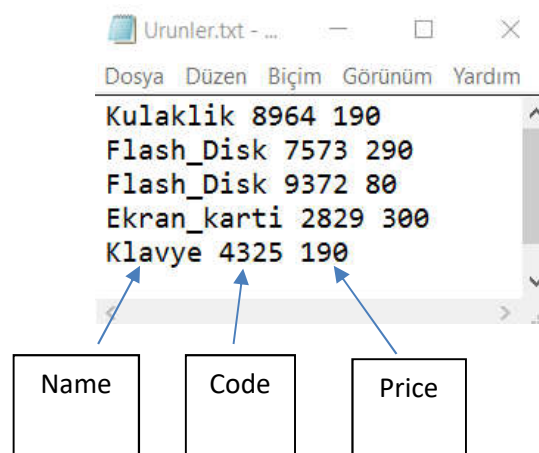
<http://kayhanayar.com/dersler/programlamayagiris/2016/Musteri.h>

<http://kayhanayar.com/dersler/programlamayagiris/2016/Musteri.cpp>

## Urunler.txt

In this file you are going to store the following

- Product Name
- Product Code
- Price



## Urun Class

```
class Urun
{
public:
    //randomly assign it's data members
    Urun();

    void    kaydet();
    string  urunAdiGetir();
    string  urunKoduGetir();
    int     fiyatGetir();

    void    urunAdiAta(string urunAdi);
    void    urunKoduAta(string urunkodu);

    void    fiyatAta(int fiyat);

    string  urunKoduUret();
private:
    string  mUrunKodu;
    string  mUrunAdi;
    int     mFiyat;
```

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**You can download Urun class files from link below**

**(you are going to write .cpp file)**

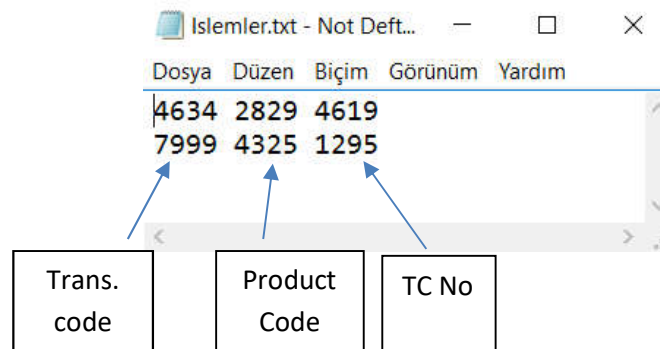
<http://kayhanayar.com/dersler/programlamayagiris/2016/Urun.cpp>

<http://kayhanayar.com/dersler/programlamayagiris/2016/Urun.h>

## Islemler.txt

In this file you are going to store the following

- Transaction code
- Customer id code
- Product code



## Islem Class

```
class Islem
{
public:
    Islem();

    string urunKoduGetir();

    string tcNoGetir();
    string islemKoduGetir();

    void urunKoduAta(string kod);
    void tcNoAta(string tcno);

    void kaydet();

    string islemKoduUret();
private:
    string mIslemKodu;
    string mUrunKodu;
    string mMusteriTcNo;
};
```

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**You can download Islem class files from link below**

**(you are going to write .cpp file)**

**<http://kayhanayar.com/dersler/programlamayagiris/2016/Islem.h>**

## **Kontrol Class**

This class is responsible for drawing the main menu and reading command from the user and execute them properly.

- You can add or remove functions from this class.

```
#include<string>
using namespace std;
class Kontrol
{
public:

    void tavanCiz(int genislik);

    void zeminCiz(int genislik);

    void araCiz(int genislik, string yazi);

    void ayracCiz(int genislik);

    int anaMenuCiz();

    void musterMenuCiz();

    void yoneticMenuCiz();
    /*
     *      istenilen fonksiyonlar eklenebilir.
     */
};
```

**You can download Kontrol class files from link below**

**<http://kayhanayar.com/dersler/programlamayagiris/2016/Kontrol.h>**  
**<http://kayhanayar.com/dersler/programlamayagiris/2016/Kontrol.cpp>**

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## Müşteri Paneli

- When “Musteri Panel” is chosen , every recorded customer must be shown like below
- Then program should ask user to enter a customer’s id number.

```
ANA KONTROL PANELI
1.Musteri Paneli
2.Yonteci Paneli
3.Cikis
Secim...:1
MUSTERILER LISTESI
1295 7879615535 10/4/2004 Jale TAHTACI
3595 1576227232 30/10/2013 Eser YILMAZ
4619 9126514462 17/7/2010 Fidan BEDER
7187 3480917366 14/9/2013 Gizem VURAL
LISTE SONU
Tc no Gir...:
```

- After a customer was chosen “Customer Panel” must be shown to screen. Just like shown below.

```
MUSTERILER LISTESI
1295 7879615535 10/4/2004 Jale TAHTACI
3595 1576227232 30/10/2013 Eser YILMAZ
4619 9126514462 17/7/2010 Fidan BEDER
7187 3480917366 14/9/2013 Gizem VURAL
LISTE SONU
Tc no Gir...:1295
MUSTERI PANELI
1.Urun al
2.Islemleri Listele
3.Islem sil
4.Geri
Secim...:
```

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- if user enters 1 then “Urun al” (buy product) operation must be performed
- In this operation first every product listed just like below then user asked to choose a product code

```
MUSTERI PANELI
1.Urun al
2.Islemleri Listele
3.Islem sil
4.Geri
Secim....:1
URUNLER LISTESI
8964 Kulaklik 190
7573 Flash_Disk 290
9372 Flash_Disk 80
2829 Ekran_karti 300
4325 Klavye 190
LISTE SONU
Urun Kodu Gir....:
```

- To buying a product you must create Islem object and assign it's data members with choosen values. Then store these values inside “Islemler.txt”
- if user enters 2 then every transaction choosen customer made should be shown like below

```
Tc no Gir...:1295
MUSTERI PANELI
1.Urun al
2.Islemleri Listele
3.Islem sil
4.Geri
Secim....:2
ISLEMLER LISTESI
4623 4325 1295
3626 9372 1295
LISTE SONU
```

- if user enters 3 then every transaction choosen customer made must be deleted from “Islemler.txt” file

## Yönetici Paneli

- if user choose “Yönetici Paneli” then a menu like below must be printed onto the screen

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```
YONETICI PANELI
1.Musteri Ekle
2.Musteri Listele
3.Musteri sil
4.Urun Ekle
5.Urunleri Listele
6.Urun Sil
Secim....:
```

- if user enters 1 then a new customer must be created and customer information must be stored inside “Musteriler.txt” file.

```
YONETICI PANELI
1.Musteri Ekle
2.Musteri Listele
3.Musteri sil
4.Urun Ekle
5.Urunleri Listele
6.Urun Sil
Secim....:1
EKLENEN MUSTERI
Isim.....:Sinan
Soyisim.....:ASLAN
tcno.....:3619
tel.....:6093225395
Dogum Tarihi.:2/12/2006
Press any key to continue . . .
```

Bilgiler rastgele atandı

- if user enters 2 then every customer inside “Musteriler.txt” file must be shown line below.

```
YONETICI PANELI
1.Musteri Ekle
2.Musteri Listele
3.Musteri sil
4.Urun Ekle
5.Urunleri Listele
6.Urun Sil
Secim....:2
MUSTERILER LISTESI
1295 7879615535 10/4/2004 Jale TAHTACI
3595 1576227232 30/10/2013 Eser YILMAZ
4619 9126514462 17/7/2010 Fidan BEDER
7187 3480917366 14/9/2013 Gizem VURAL
3581 1574297837 16/5/2003 Demet BEDER
3619 6093225395 2/12/2006 Sinan ASLAN
LISTE SONU
```

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- if user enters 3 first every recorded customer information would print on the screen. Then user asked to enter a customer id number .after that choosen customer must be removed from “Musteriler.txt”

```
YONETICI PANELI
1.Musteri Ekle
2.Musteri Listele
3.Musteri sil
4.Urun Ekle
5.Urunleri Listele
6.Urun Sil

Secim....:3

MUSTERILER LISTESI

1295 7879615535 10/4/2004 Jale TAHTACI
3595 1576227232 30/10/2013 Eser YILMAZ
4619 9126514462 17/7/2010 Fidan BEDER
7187 3480917366 14/9/2013 Gizem VURAL
3581 1574297837 16/5/2003 Demet BEDER
3619 6093225395 2/12/2006 Sinan ASLAN

LISTE SONU

TC No Gir
```

- if user enters 4 a new product will be created and recorded inside “Urunler.txt” file. Resulting operation shown below

```
Secim....:2

YONETICI PANELI
1.Musteri Ekle
2.Musteri Listele
3.Musteri sil
4.Urun Ekle
5.Urunleri Listele
6.Urun Sil

Secim....:4

EKLENEN URUN

Urun adi.....Ekran_karti
Urun kodu.....9431
fiyat.....210

Press any key to continue . . .
```

- if user enters 5 every product recorded inside “Urunler.txt” file will be shown like below

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```
YONETICI PANELI
1.Musteri Ekle
2.Musteri Listele
3.Musteri sil
4.Urun Ekle
5.Urunleri Listele
6.Urun Sil

Secim...:5

URUNLER LISTESI
8964 Kulaklik 190
7573 Flash_Disk 290
9372 Flash_Disk 80
4325 Klavye 190
9431 Ekran_karti 210
LISTE SONU
```

- if user enters 6 first every product would be listed on the screen then user will be asked to enter a product id code.
- After that choosen product recorded must be removed from “Urunler.txt” file.

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# BASIC FORMATTING RULES

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Every C++ source code file must have a comment section(shown in below) that describe the Project. Every file missing this block will cost 10 point in assignment grade result (**do not copy this block directly from pdf**)

```

/*****
**
**          SAKARYA ÜNİVERSİTESİ
**          BİLGİSAYAR VE BİLİŞİM BİLİMLERİ FAKÜLTESİ
**          BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ
**          PROGRAMLAMAYA GİRİŞİ DERSİ
**
**          NAME.....:
**          STUDENT NUMBER.:
*****/

```

Variable names should mean something.

TRUE
<pre>int a;</pre>

FALSE
<pre>int oddCount;</pre>

After every semicolon code should have a empty space. You can use a tab button.

TRUE
<pre>if(true) {     int a =6;     cout&lt;&lt;"Merhaba";     if(false)     cout&lt;&lt;"Nasilsin"; }</pre>

FALSE
<pre>if(true) {     int a =6;     cout&lt;&lt;"Merhaba";      if(false)         cout&lt;&lt;"Nasilsin"; }</pre>

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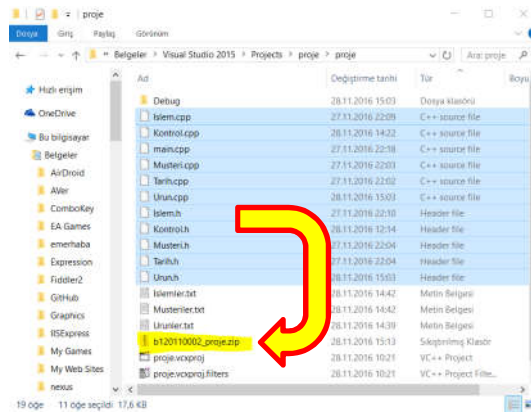
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## SUBMISSION RULES

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### FILES THAT NEED TO UPLOADED SCHOOLGY

- Code files(Only Code files) should be compress into one file which its name must be **StudentNumber\_proje.zip** adıyla sıkıştırılmalıdır.



### COMPILER AND LAST SUBMISSION DATE

Assignment will be compile by using visual C++ 2015.

**Mistakes made in file name will cost 20 point.**

**Late submitted assignments will not be graded**

## DONT SHARE YOUR CODE

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This assignment must be done alone. You must not share your code with any student or take code from somebody else. Every assignment will be compared by a software that can detect plagiarism. Any assignment that violate this rule will not be graded.

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