

C Sharp Yardimci Metotlar

Tarih, Sayi, Metin, Sifreleme gibi konularda faydali olacak metotlar içeren bir Windows Form Uygulamasi

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1 Symbol Reference



1.1 CSharpHelperMethods Namespace

This is namespace CSharpHelperMethods.

Namespaces

Name	Description
Properties (see page 1)	This is namespace CSharpHelperMethods.Properties.
YardimciSiniflar (see page 4)	This is namespace CSharpHelperMethods.YardimciSiniflar.



Classes

	Name	Description
	FrmAnaSayfa (see page 34)	This is class CSharpHelperMethods.FrmAnaSayfa.
	Program (see page 64)	This is class CSharpHelperMethods.Program.

1.1.1 CSharpHelperMethods.Properties Namespace

This is namespace CSharpHelperMethods.Properties.



Classes

	Name	Description
	Resources (see page 1)	A strongly-typed resource class, for looking up localized strings, etc.
	Settings (see page 3)	This is class CSharpHelperMethods.Properties.Settings.

1.1.1.1 Classes

The following table lists classes in this documentation.

Classes

	Name	Description
	Resources (see page 1)	A strongly-typed resource class, for looking up localized strings, etc.
	Settings (see page 3)	This is class CSharpHelperMethods.Properties.Settings.

1.1.1.1.1 Resources Class

A strongly-typed resource class, for looking up localized strings, etc.

Class Hierarchy

CSharpHelperMethods.Properties.Resources

C#

```
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Resources.Tools.StronglyTypedResourceBuilder",
"4.0.0.0")]
[global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
[global::System.Runtime.CompilerServices.CompilerGeneratedAttribute()]
internal class Resources;
```


File

Resources.Designer.cs ([see page 96](#))



Description

This class was auto-generated by the StronglyTypedResourceBuilder class via a tool like ResGen or Visual Studio. To add or remove a member, edit your .ResX file then rerun ResGen with the /str option, or rebuild your VS project.



Methods

	Name	Description
	Resources (see page 2)	This is Resources, a member of class Resources.

Resources Fields

	Name	Description
	resourceCulture (see page 2)	This is resourceCulture, a member of class Resources.
	resourceMan (see page 3)	This is resourceMan, a member of class Resources.

Resources Properties

	Name	Description
	Culture (see page 3)	Overrides the current thread's CurrentUICulture property for all resource lookups using this strongly typed resource class.
	ResourceManager (see page 3)	Returns the cached ResourceManager instance used by this class.

1.1.1.1.1.1 Resources.Resources Constructor**C#**

```
[global::System.Diagnostics.CodeAnalysis.SuppressMessageAttribute("Microsoft.Performance",
"CA1811:AvoidUncalledPrivateCode")]
internal Resources();
```

Description

This is Resources, a member of class Resources.

Body Source

```
1:
[global::System.Diagnostics.CodeAnalysis.SuppressMessageAttribute("Microsoft.Performance",
"CA1811:AvoidUncalledPrivateCode")]
2: internal Resources()
3: {
4: }
```

1.1.1.1.1.2 Resources Fields**1.1.1.1.1.2.1 Resources.resourceCulture Field****C#**

```
private static global::System.Globalization.CultureInfo resourceCulture;
```

Description

This is resourceCulture, a member of class Resources.

1.1.1.1.1.2.2 Resources.resourceMan Field

C#

```
private static global::System.Resources.ResourceManager resourceMan;
```

Description

This is resourceMan, a member of class Resources.

1.1.1.1.1.3 Resources Properties

1.1.1.1.1.3.1 Resources.Culture Property

Overrides the current thread's CurrentUICulture property for all resource lookups using this strongly typed resource class.

C#

```
[global::System.ComponentModel.EditorBrowsableAttribute(global::System.ComponentModel.EditorBrowsableState.Advanced)]  
internal static global::System.Globalization.CultureInfo Culture;
```

1.1.1.1.1.3.2 Resources.ResourceManager Property

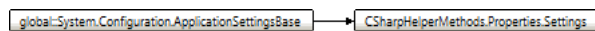
Returns the cached ResourceManager instance used by this class.

C#

```
[global::System.ComponentModel.EditorBrowsableAttribute(global::System.ComponentModel.EditorBrowsableState.Advanced)]  
internal static global::System.Resources.ResourceManager ResourceManager;
```

1.1.1.1.2 Settings Class

Class Hierarchy



C#

```
[global::System.Runtime.CompilerServices.CompilerGeneratedAttribute()]  
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("Microsoft.VisualStudio.Editors.SettingsDesigner.SettingsSingleFileGenerator",  
"11.0.0.0")]  
internal sealed class Settings : global::System.Configuration.ApplicationSettingsBase;
```

File

Settings.Designer.cs ([see page 101](#))

Description

This is class CSharpHelperMethods.Properties.Settings.

Settings Fields

	Name	Description
	defaultInstance (see page 4)	This is defaultInstance, a member of class Settings.

Settings Properties

	Name	Description
	Default (see page 4)	This is Default, a member of class Settings.

1.1.1.1.2.1 Settings Fields

1.1.1.1.2.1.1 Settings.defaultInstance Field

C#

```
private static Settings defaultInstance =
((Settings)(global::System.Configuration.ApplicationSettingsBase.Synchronized(new
Settings())));
```

Description

This is defaultInstance, a member of class Settings.

1.1.1.1.2.2 Settings Properties

1.1.1.1.2.2.1 Settings.Default Property

C#

```
public static Settings Default;
```










Description

This is Default, a member of class Settings.

1.1.2 CSharpHelperMethods.YardimciSiniflar Namespace

This is namespace CSharpHelperMethods.YardimciSiniflar.






Classes





	Name	Description
	DataTableIslemleri (see page 5)	Raporlama için lazım olan DataTable vb. verilerin düzenlenmesini sağlayan sınıflardır.
	DosyaIslemleri (see page 7)	Dosya işlemleri ile ilgili yardımcı sınıf
	KisiIslemleri (see page 11)	Kisi ile ilişkili yardımcı metotların tamamını içeren sınıf
	MetinIslemleri (see page 13)	Metinsel veri kontrol metotlarını barındıran sınıf
	Sabitler (see page 19)	Metin Sabitlerinin Bulunduğu Sınıf
	SayıIslemleri (see page 21)	Sayısal veri kontrol metotlarını barındıran sınıf
	SifrelemeIslemleri (see page 24)	Sifre ile ilgili işlemler sınıfı
	SiralamaIslemleri (see page 27)	Alfa numerik sıralama için hazırlanmış bir metod
	TarihIslemleri (see page 30)	Tarihsel veri kontrol metotlarını barındıran sınıf

1.1.2.1 Classes

The following table lists classes in this documentation.

Classes

	Name	Description
	DataTableIslemleri (see page 5)	Raporlama için lazım olan DataTable vb. verilerin düzenlenmesini sağlayan sınıflardır.
	DosyaIslemleri (see page 7)	Dosya işlemleri ile ilgili yardımcı sınıf
	KisiIslemleri (see page 11)	Kisi ile ilişkili yardımcı metotların tamamını içeren sınıf
	MetinIslemleri (see page 13)	Metinsel veri kontrol metotlarını barındıran sınıf
	Sabitler (see page 19)	Metin Sabitlerinin Bulunduğu Sınıf

	Sayıİslemleri (🔗 see page 21)	Sayısal veri kontrol metotlarını barındıran sınıf
	Sifrelemeliİslemleri (🔗 see page 24)	Sifre ile ilgili işlemler sınıfı
	Sıralamaİslemleri (🔗 see page 27)	Alfa numerik sıralama için hazırlanmış bir metod
	Tarihİslemleri (🔗 see page 30)	Tarihsel veri kontrol metotlarını barındıran sınıf

1.1.2.1.1 DataTableİslemleri Class

Raporlama için lazım olan DataTable vb. verilerin düzenlenmesini sağlayan sınıflardır.

Class Hierarchy

CSharpHelperMethods.YardimciSiniflar.DataTableİslemleri






C#

```
public static class DataTableİslemleri;
```

File

DataTableİslemleri.cs (🔗 see page 66)

DataTableİslemleri Methods

	Name	Description
	BaseType (🔗 see page 5)	Nesnenin içindeki her hangi bir değerin (DateTime, decimal vb.) Eğer Nullable ise, Nullable olmamasını sağlayan metottur (Çünkü Crystal Report, Telerik vb. Nullable alan kabul etmiyor)
	Nullable.GetUnderlyingType (🔗 see page 5)	This is Nullable.GetUnderlyingType, a member of class DataTableİslemleri.
	oType.GetGenericTypeDefinition (🔗 see page 6)	This is oType.GetGenericTypeDefinition, a member of class DataTableİslemleri.
	ToDataTable (🔗 see page 6)	Parametre olarak girilen herhangi bir sınıf türünden listeyi ideal bir şekilde Nullable alan içermeyen bir DataTable'a çevirmek için kullanılan metottur.
	typeof (🔗 see page 7)	This is typeof, a member of class DataTableİslemleri.

1.1.2.1.1.1 DataTableİslemleri Methods

1.1.2.1.1.1.1 DataTableİslemleri.BaseType Method

Nesnenin içindeki her hangi bir değerin (DateTime, decimal vb.) Eğer Nullable ise, Nullable olmamasını sağlayan metottur (Çünkü Crystal Report, Telerik vb. Nullable alan kabul etmiyor)

C#

```
private static Type BaseType(Type oType);
```

Parameters

Parameters	Description
Type oType	Veri Tipi

Returns

Verinin İdeal Tipi

1.1.2.1.1.1.2 DataTableİslemleri.Nullable.GetUnderlyingType Method

C#

```
private Nullable.GetUnderlyingType(oType);
```


Description

This is Nullable.GetUnderlyingType, a member of class DataTablelslemleri.

1.1.2.1.1.1.3 DataTablelslemleri.oType.GetGenericTypeDefintion Method**C#**

```
private >oType!=null&&oType.IsValueType&&oType.IsGenericType&&
oType.GetGenericTypeDefintion();
```

Description

This is oType.GetGenericTypeDefintion, a member of class DataTablelslemleri.

1.1.2.1.1.1.4 DataTablelslemleri.ToDataTable Method

Parametre olarak girilen herhangi bir sinif türünden listeyi Idael bir sekilde Nullable alan içermeyen bir DataTable'a çevirmek için kullanılan metottur.

C#

```
public static DataTable ToDataTable<T>(List<T> liste);
```

Parameters

Parameters	Description
List<T> liste	Liste Bilgisi

Type Parameters

Type Parameters	Description
T	Generic Nesne Tipi

Returns

DataTable cinsinde Nesne

Body Source

```
1: public static DataTable ToDataTable<T>(List<T> liste)
2: {
3:     try
4:     {
5:         var sonuc = new DataTable(typeof(T).Name);
6:
7:         var ozellikler = typeof(T).GetFields(BindingFlags.Public |
BindingFlags.CreateInstance | BindingFlags.Default | BindingFlags.DeclaredOnly |
BindingFlags.ExactBinding | BindingFlags.FlattenHierarchy | BindingFlags.IgnoreReturn |
BindingFlags.Instance | BindingFlags.InvokeMethod | BindingFlags.NonPublic |
BindingFlags.OptionalParamBinding | BindingFlags.SuppressChangeType);
8:
9:         var ozellikler2 = typeof(T).GetProperties(BindingFlags.Public |
BindingFlags.CreateInstance | BindingFlags.Default | BindingFlags.DeclaredOnly |
BindingFlags.ExactBinding | BindingFlags.FlattenHierarchy | BindingFlags.IgnoreReturn |
BindingFlags.Instance | BindingFlags.InvokeMethod | BindingFlags.NonPublic |
BindingFlags.OptionalParamBinding | BindingFlags.SuppressChangeType);
10:
11:         foreach (var ozellik in ozellikler)
12:         {
13:             var varMi = false;
14:             foreach (var ozellik2 in ozellikler2)
15:             {
16:                 if (!ozellik.Name.Contains(ozellik2.Name)) continue;
17:                 varMi = true;
18:                 var ozellikAdi = ozellik.Name.Replace("<", "");
19:                 var ozellikDizi = ozellikAdi.Split('>');
20:                 var ozellikTemp = ozellikDizi[0].Trim();
```

```

21:         //ozellikTemp = ozellikTemp.Substring(0, ozellikTemp.Length - 1);
22:         if (ozellikTemp == ozellik2.Name)
23:         {
24:             if (sonuc.Columns.IndexOf(new DataColumn(ozellik2.Name)) >= 0)
continue;
25:             sonuc.Columns.Add(ozellik2.Name, BaseType(ozellik2.PropertyType));
26:             break;
27:         }
28:
29:         if (sonuc.Columns.IndexOf(new DataColumn(ozellikTemp)) >= 0) continue;
30:         sonuc.Columns.Add(ozellikTemp, BaseType(ozellik2.PropertyType));
31:         break;
32:     }
33:
34:     if (varMi) continue;
35:     if (sonuc.Columns.IndexOf(new DataColumn(ozellik.Name)) < 0)
36:     {
37:         sonuc.Columns.Add(ozellik.Name, BaseType(ozellik.FieldType));
38:     }
39:
40: }
41:
42: foreach (var nesne in liste)
43: {
44:     var degerler = new object[ozellikler.Length];
45:
46:     for (var i = 0; i < ozellikler.Length; i++)
47:     {
48:         var varMi = false;
49:         foreach (var item in ozellikler2)
50:         {
51:             if (!ozellikler[i].Name.Contains(item.Name)) continue;
52:             varMi = true;
53:             degerler[i] = item.GetValue(nesne, null);
54:             break;
55:         }
56:         if (!varMi)
57:         {
58:             degerler[i] = ozellikler[i].GetValue(nesne);
59:         }
60:     }
61:
62:     sonuc.Rows.Add(degerler);
63: }
64:
65:
66: return sonuc;
67: }
68: catch (Exception)
69: {
70:     return null;
71: }
72: }

```

1.1.2.1.1.1.5 DataTableIslemleri.typeof Method

C#

```
private typeof(Nullable<>);
```

Description

This is typeof, a member of class DataTableIslemleri.

1.1.2.1.2 DosyaIslemleri Class

Dosya islemleri ile ilgili yardimici sinif

Class Hierarchy

CSharpHelperMethods.YardimciSiniflar.Dosyaislemleri






C#

```
public static class DosyaIslemleri;
```

File

Dosyaislemleri.cs (see page 68)

Dosyaislemleri Methods

	Name	Description
	DosyaKilitliMi (see page 8)	Dosya sistemindeki bir dosyanin baska bir program tarafından o anda kullanimda olup olmadiginin kontrol edildiği bir metottur.
	DosyaUzantisiUygunMu (see page 9)	Sisteme yüklenecek dosyanin belirlenen kriterlere uyup uymadiginı kontrol eden metottur. Dosyanin uzantisi istedigimiz formatta degilse yanlis olarak geri döndürecektr.s
	GetirDosyaUzantisiMimeTypeelle (see page 9)	Dosyanin türünden dosyanin uzantisinin ne oldugunu getiren metottur
	GetirIcerikTipiDosyaUzantisille (see page 10)	Dosya uzantisinden dosyanin türünün ne oldugunu getiren metottur
	GüvenliDizinOlustur (see page 10)	Bu metot ile gönderdiginiz Dizin yolunda verdiginiz isimde bir klasör yoksa Otomatik olarak olusturmayı sagliyor

1.1.2.1.2.1 Dosyaislemleri Methods

1.1.2.1.2.1.1 Dosyaislemleri.DosyaKilitliMi Method

Dosya sistemindeki bir dosyanin baska bir program tarafından o anda kullanimda olup olmadiginin kontrol edildiği bir metottur.

C#

```
public static bool DosyaKilitliMi(FileInfo dosya);
```

Parameters

Parameters	Description
FileInfo dosya	Dosya Bilgisi

Returns

Evet veya Hayir Bilgisi

Body Source

```
1: public static bool DosyaKilitliMi(FileInfo dosya)
2: {
3:     FileStream stream = null;
4:     try
5:     {
6:         stream = dosya.Open(FileMode.Open, FileAccess.ReadWrite, FileShare.None);
7:     }
8:     catch (IOException)
9:     {
10:         // eger dosya baska bir uygulama tarafından kullaniliyorsa
11:         // burada true dönüyor ki
12:         // kullanıcı bu metottan gelen bilgiye göre davranisin
13:         return true;
14:     }
15:     finally
16:     {

```

```

17:         stream?.Close();
18:     }
19:
20:     //file is not locked
21:     return false;
22: }

```

1.1.2.1.2.1.2 Dosyaislemleri.DosyaUzantisiUygunMu Method

Sisteme yüklenecek dosyanın belirlenen kriterlere uyup uymadığını kontrol eden metottur. Dosyanın uzantisi istediğimiz formatta değilse yanlış olarak geri döndürecek tir.s

C#

```
public static bool DosyaUzantisiUygunMu(string extension);
```

Parameters

Parameters	Description
string extension	Dosya Uzantisi

Returns

Eklenecek Dosyanın Uygun Olup Olmadığı Bilgisi

Body Source

```

1: public static bool DosyaUzantisiUygunMu(string extension)
2: {
3:     extension = extension.ToLower();
4:
5:     return extension == ".jpg" || extension == ".bmp" || extension == ".png" ||
extension == ".doc" || extension == ".docx" || extension == ".ppt" || extension == ".pptx"
|| extension == ".xls" || extension == ".xlsx" || extension == ".rar" || extension ==
".zip" || extension == ".7z" || extension == ".pdf" || extension == ".txt" || extension ==
".rtf";
6: }

```

1.1.2.1.2.1.3 Dosyaislemleri.GetirDosyaUzantisiMimeTypeelle Method

Dosyanın türünden dosyanın uzantisinin ne olduğunu getiren metottur

C#

```
public static string GetirDosyaUzantisiMimeTypeelle(string mimeType);
```

Parameters

Parameters	Description
string mimeType	Mime Type

Returns

Dosya Türü Bilgisi

Body Source

```

1: public static string GetirDosyaUzantisiMimeTypeelle(string mimeType)
2: {
3:     string dosyaUzantisi;
4:     mimeType = mimeType.ToLower();
5:     switch (mimeType)
6:     {
7:         case "application/pdf": dosyaUzantisi = "pdf"; break;
8:         case "image/jpeg": dosyaUzantisi = "jpeg"; break;
9:         case "image/jpg": dosyaUzantisi = "jpg"; break;
10:        case "image/png": dosyaUzantisi = "png"; break;
11:        case "image/bmp": dosyaUzantisi = "bmp"; break;
12:        case "application/msword": dosyaUzantisi = "doc"; break;
13:        case "application / vnd.openxmlformats -
officedocument.presentationml.presentation": dosyaUzantisi = "pptx"; break;

```

```

14:         case "application/vnd.ms-excel": dosyaUzantisi = "xls"; break;
15:         case "text/plain": dosyaUzantisi = "txt"; break;
16:         case "application/vnd.openxmlformats-officedocument.spreadsheetml.sheet":
dosyaUzantisi = "xlsx"; break;
17:         case "application/vnd.openxmlformats-officedocument.wordprocessingml.document":
dosyaUzantisi = "docx"; break;
18:         case "text/xml": dosyaUzantisi = "xml"; break;
19:         case "application/vnd.ms-powerpoint": dosyaUzantisi = "ppt"; break;
20:         case "application/zip": dosyaUzantisi = "zip"; break;
21:         case "application/x-rar-compressed": dosyaUzantisi = "rar"; break;
22:         case "application/x-7z-compressed": dosyaUzantisi = "7z"; break;
23:         default: dosyaUzantisi = "error"; break;
24:     }
25:
26:     return dosyaUzantisi;
27: }

```

1.1.2.1.2.1.4 Dosyaislemleri.GetirIcerikTipiDosyaUzantisille Method

Dosya uzantisinden dosyanın türünün ne olduğunu getiren metottur

C#

```
public static string GetirIcerikTipiDosyaUzantisille(string extension);
```

Parameters

Parameters	Description
string extension	Dosya Uzantisi

Returns

Dosya Türü Bilgisi

Body Source

```

1: public static string GetirIcerikTipiDosyaUzantisille(string extension)
2: {
3:     var contentType = String.Empty;
4:     extension = extension.Replace(".", "").ToLower();
5:     switch (extension)
6:     {
7:         case "pdf": contentType = "application/pdf"; break;
8:         case "jpeg": contentType = "image/jpeg"; break;
9:         case "jpg": contentType = "image/jpg"; break;
10:        case "png": contentType = "image/png"; break;
11:        case "bmp": contentType = "image/bmp"; break;
12:        case "doc": contentType = "application/msword"; break;
13:        case "pptx": contentType =
"application/vnd.openxmlformats-officedocument.presentationml.presentation"; break;
14:        case "xls": contentType = "application/vnd.ms-excel"; break;
15:        case "txt": contentType = "text/plain"; break;
16:        case "xlsx": contentType =
"application/vnd.openxmlformats-officedocument.spreadsheetml.sheet"; break;
17:        case "rtf": contentType = "application/rtf"; break;
18:        case "docx": contentType =
"application/vnd.openxmlformats-officedocument.wordprocessingml.document"; break;
19:        case "ppt": contentType = "application/vnd.ms-powerpoint"; break;
20:        case "zip": contentType = "application/zip"; break;
21:        case "rar": contentType = "application/x-rar-compressed"; break;
22:        case "7z": contentType = "application/x-7z-compressed"; break;
23:        default: contentType = "application/octet-stream"; break;
24:    }
25:
26:    return contentType;
27: }

```

1.1.2.1.2.1.5 Dosyaislemleri.GuvenliDizinOlustur Method

Bu metot ile gönderdiğiniz Dizin yolunda verdiğiniz isimde bir klasör yoksa Otomatik olarak oluşturmaya sağlıyor

C#

```
public static bool GuvenliDizinOlustur(string dizinYolu);
```

Parameters

Parameters	Description
string dizinYolu	Dizin Yolu Bilgisi

Returns

Evet veya Hayir Bilgisi

Body Source

```
1: public static bool GuvenliDizinOlustur(string dizinYolu)
2: {
3:     var isExists = Directory.Exists(dizinYolu);
4:
5:     if (!isExists)
6:         Directory.CreateDirectory(dizinYolu);
7:     return isExists;
8: }
```

1.1.2.1.3 Kisilslemleri Class

Kisi ile iliskili yardimci metotların tamamını içeren sınıf

Class Hierarchy

CSharpHelperMethods.YardimciSiniflar.Kisilslemleri




C#

```
public static class KisiIslemleri;
```

File

Kisilslemleri.cs (see page 91)

Kisilslemleri Methods

	Name	Description
	DogrulaEPosta (see page 11)	Ekranlardan girilen bir e-posta adresinin geçerli bir e-posta adresi olup olmadığını kontrol eden metottur
	DogrulaIBAN (see page 12)	Girilen IBAN'ın standar IBAN algoritmasına uygun olup olmadığını doğrular
	DogrulaTcKimlikNo (see page 13)	Girilen TC Kimlik Numarasının, standart TC Kimlik No algoritmasına uygun olup olmadığını kontrol eden metottur.

1.1.2.1.3.1 Kisilslemleri Methods**1.1.2.1.3.1.1 Kisilslemleri.DogrulaEPosta Method**

Ekranlardan girilen bir e-posta adresinin geçerli bir e-posta adresi olup olmadığını kontrol eden metottur

C#

```
public static bool DogrulaEPosta(string ePosta);
```

Parameters

Parameters	Description
string ePosta	E-Posta Adresi

Returns

E-Posta Adresinin Geçerli Olup Olmadigi Bilgisi

Body Source

```

1: public static bool DogrulaEPosta(string ePosta)
2: {
3:     const string pattern = @"^(([\w-]+\.[\w-]+|([a-zA-Z]{1}|[\w-]{2,}))@"
4:         + @"((([0-1]?[0-9]{1,2}|25[0-5]|2[0-4][0-9])\.")
5:         + @"([0-1]?[0-9]{1,2}|25[0-5]|2[0-4][0-9])\.")
6:         + @"([0-1]?[0-9]{1,2}|25[0-5]|2[0-4][0-9])\.")
7:         + @"([0-1]?[0-9]{1,2}|25[0-5]|2[0-4][0-9])){1}|"
8:         + @"([a-zA-Z]+[\w-]+\.[a-zA-Z]{2,4})$";
9:     return Regex.IsMatch(ePosta, pattern);
10: }

```

1.1.2.1.3.1.2 Kisilslemleri.DogrulaIBAN Method

Girilen IBAN'in standar IBAN algoritmasina uygun olup olmadigini dogrular

C#

```
public static bool DogrulaIBAN(string iban);
```

Parameters

Parameters	Description
string iban	Uluslar arasi banka hesap numarasi (IBAN)

Returns

IBAN uygunsa true, degilse false degeri döner

Description

```
DogrulaIBAN("TR560006200000012990022604")
```

Body Source

```

1: public static bool DogrulaIBAN(string iban)
2: {
3:     iban = iban.ToUpper();
4:
5:     if (string.IsNullOrEmpty(iban))
6:         return false;
7:
8:     if (!Regex.IsMatch(iban, "^[A-Z0-9]"))
9:         return false;
10:
11:     iban = iban.Replace(" ", String.Empty);
12:     var bank = iban.Substring(4, iban.Length - 4) + iban.Substring(0, 4);
13:     const int asciiShift = 55;
14:     var sb = new StringBuilder();
15:     foreach (var c in bank)
16:     {
17:         sb.Append(char.IsLetter(c) ? c - asciiShift : int.Parse(c.ToString()));
18:     }
19:
20:     var checksumString = sb.ToString();
21:     var checksum = int.Parse(checksumString.Substring(0, 1));
22:     for (var i = 1; i < checksumString.Length; i++)
23:     {
24:         var v = int.Parse(checksumString.Substring(i, 1));
25:         checksum *= 10;
26:         checksum += v;
27:         checksum %= 97;
28:     }
29:     return checksum == 1;
30: }

```

1.1.2.1.3.1.3 Kisilslemleri.DogrulaTcKimlikNo Method

Girilen TC Kimlik Numarasinin, standart TC Kimlik No algoritmasina uygun olup olmadigini kontrol eden metottur.

C#

```
public static bool DogrulaTcKimlikNo(string tcKimlikNo);
```

Parameters

Parameters	Description
string tcKimlikNo	TC Kimlik No

Returns

TC Kimlik No'nun Uygun Olup Olmadigi Bilgisi

Body Source

```
1: public static bool DogrulaTcKimlikNo(string tcKimlikNo)
2: {
3:     var tcNo = Convert.ToInt64(tcKimlikNo);
4:     var atcno = tcNo / 100;
5:     var btcno = tcNo / 100;
6:     var c1 = atcno % 10; atcno /= 10;
7:     var c2 = atcno % 10; atcno /= 10;
8:     var c3 = atcno % 10; atcno /= 10;
9:     var c4 = atcno % 10; atcno /= 10;
10:    var c5 = atcno % 10; atcno /= 10;
11:    var c6 = atcno % 10; atcno /= 10;
12:    var c7 = atcno % 10; atcno /= 10;
13:    var c8 = atcno % 10; atcno /= 10;
14:    var c9 = atcno % 10;
15:    var q1 = (10 - ((c1 + c3 + c5 + c7 + c9) * 3 + c2 + c4 + c6 + c8) % 10) % 10;
16:    var q2 = (10 - ((c2 + c4 + c6 + c8 + q1) * 3 + c1 + c3 + c5 + c7 + c9) % 10) % 10;
17:    var dogrula = btcno * 100 + q1 * 10 + q2 == tcNo;
18:    return dogrula;
19: }
```

1.1.2.1.4 MetinIslemleri Class

Metinsel veri kontrol metotlarini barindiran sinif

Class Hierarchy

CSharpHelperMethods.YardimciSiniflar.MetinIslemleri







C#









```
public static class MetinIslemleri;
```

File

MetinIslemleri.cs (see page 93)

MetinIslemleri Methods

	Name	Description
	BoslukKaldir (see page 14)	Girilen metnin bosluklarinin kaldırilmasini saglayan metottur.
	HTMLDuzelt (see page 14)	Girilen metnin basinda virgöl olup olmadigini kontrol eden metottur.
	IdealMetinGetir (see page 15)	Girilen metnin basinda virgöl olup olmadigini kontrol eden metottur.
	MetinIlkKarakterBuyukDigerleriKucukYap (see page 16)	This is MetinIlkKarakterBuyukDigerleriKucukYap, a member of class MetinIslemleri.
	MetinIlkKarakterleriBuyukYap (see page 16)	Girilen bir metindeki tüm kelimelerin ilk harflerinin Büyük yapılmasi için hazirlanan metottur
	MetinSifrele (see page 16)	This is MetinSifrele, a member of class MetinIslemleri.

	MetinZararliKarakterDuzelt (see page 17)	This is MetinZararliKarakterDuzelt, a member of class MetinIslemleri.
	TelefonNoDuzenle (see page 17)	Girilen telefon numarasinin SMS gönderilecek hale getirilmesini sağlayan metottur.
	text.First (see page 17)	This is text.First, a member of class MetinIslemleri.
	text.Substring (see page 17)	This is text.Substring, a member of class MetinIslemleri.
	ToString (see page 18)	This is ToString, a member of class MetinIslemleri.
	ToUpper (see page 18)	This is ToUpper, a member of class MetinIslemleri.
	TurkceKarakterleriDuzelt (see page 18)	Girilen metnin basinda virgöl olup olmadigini kontrol eden metottur.
	UTF8Duzelt (see page 18)	Girilen metnin basinda virgöl olup olmadigini kontrol eden metottur.

1.1.2.1.4.1 MetinIslemleri Methods

1.1.2.1.4.1.1 MetinIslemleri.BoslukKaldir Method

Girilen metnin bosluklarinin kaldırilmasini sağlayan metottur.

C#

```
public static string BoslukKaldir(string metin);
```

Parameters

Parameters	Description
string metin	Telefon No Bilgisi

Returns

Girilen Metnin Istenen Hali

Body Source

```
1: public static string BoslukKaldir(string metin)
2: {
3:     if (string.IsNullOrEmpty(metin)) return string.Empty;
4:     metin = metin.Replace("-", "").Replace(" ", "").Replace("(", "").Replace(")", "");
5:     return metin;
6: }
7: }
```

1.1.2.1.4.1.2 MetinIslemleri.HTMLDuzelt Method

Girilen metnin basinda virgöl olup olmadigini kontrol eden metottur.

C#

```
public static string HTMLDuzelt(string text);
```

Parameters

Parameters	Description
string text	Girdi metni

Returns

Girilen Metnin Olmasi Gerektigi Hali

Body Source

```
1: public static string HTMLDuzelt(string text)
2: {
3:     var sc = new List<string>
4:     {
5:         // get rid of unnecessary tag spans (comments and title)
6:         @"<!--(\w|\W)+?-->",
7:         @"<title>(\w|\W)+?</title>",
```

```

8:         // Get rid of classes and styles
9:         @"\"s?class=\w+",
10:        @"\"s+style='[^']*'",
11:        // Get rid of unnecessary tags
12:
13:        @"<(meta|link|/?o:|/?style|/?div|/?st\d|/?head|/?html|body|/?body|/?span|!\\)[^>]*?>",
14:        // Get rid of empty paragraph tags
15:        @"(<[>]+>)+&nbsp;(</w+>)+",
16:        @"<a[>]*>([<]+)</a>",
17:        @"<p[>]*>([<]+)</p>",
18:        // remove bizarre v: element attached to <img> tag
19:        @"\"s+v:\w+=\"\"[^\"]+\"\"",
20:        // remove extra lines
21:        @"(\\n\\r){2,}",
22:        "&nbsp;"
23:    };
24:    text = sc.Aggregate(text, (current, s) => Regex.Replace(current, s, string.Empty,
25:    RegexOptions.IgnoreCase));
26:    text = Regex.Replace(text, "<.*?>", String.Empty);
27:    text = text.Replace("\\r", " ").Replace("\\n", " ").Replace(" ", " ").Trim();
28:    text = text.Replace("&rsquo;", "'");
29:    text = text.Replace("&rsquo;", "'");
30:    text = text.Replace("&rdquo;", "\"");
31:    text = text.Replace("&rdquo;", "\"");
32:    text = text.Replace("&lsquo;", "'");
33:    text = text.Replace("&lsquo;", "'");
34:    text = text.Replace("&ldquo;", "\"");
35:    text = text.Replace("&ldquo;", "\"");
36:    text = text.Replace("&lt;", "<");
37:    text = text.Replace("&gt;", ">");
38:    text = text.Replace("&amp;", "&");
39:    //text = text.Replace("&lt;", "");
40:    //text = text.Replace("&p>", "");
41:    //text = text.Replace("&/p>", "");
42:    //text = text.Replace("&gt;", "");
43:    //return text;
44:    return text;
45: }

```

1.1.2.1.4.1.3 MetinIslemleri.IdealMetinGetir Method

Girilen metnin basinda virgöl olup olmadigini kontrol eden metottur.

C#

```
public static string IdealMetinGetir(string text);
```

Parameters

Parameters	Description
string text	Girdi metni

Returns

Girilen Metnin Olmasi Gerektigi Hali

Body Source

```

1: public static string IdealMetinGetir(string text)
2: {
3:     if (!string.IsNullOrEmpty(text) && text[0] == ',')
4:     {
5:         text = text.Substring(1, text.Length - 1);
6:     }
7:     return text;
8: }

```

1.1.2.1.4.1.4 MetinIslemleri.MetinIlkKarakterBuyukDigerleriKucukYap Method**C#**

```
public static string MetinIlkKarakterBuyukDigerleriKucukYap(string text);
```

Description

This is MetinIlkKarakterBuyukDigerleriKucukYap, a member of class MetinIslemleri.

1.1.2.1.4.1.5 MetinIslemleri.MetinIlkKarakterleriBuyukYap Method

Girilen bir metindeki tüm kelimelerin ilk harflerinin Büyük yapılması için hazırlanan metottur

C#

```
public static string MetinIlkKarakterleriBuyukYap(this string input);
```

Parameters

Parameters	Description
this string input	Girilen metin

Returns

Metnin Kelimelerinin İlk Harflerinin Büyülmüş Hali

Body Source

```
1: public static string MetinIlkKarakterleriBuyukYap(this string input)
2: {
3:     var result = "";
4:     var wordList = input.Split(' ');
5:     var cultureInfo = new CultureInfo("tr-TR");
6:     foreach (var item in wordList)
7:     {
8:         if (item.Length > 1)
9:             result = result + " " + item.Substring(0, 1).ToUpper(cultureInfo) +
item.Substring(1).ToLower(cultureInfo) + " ";
10:        else if (item.Length == 1)
11:            result = result + " " + item.ToUpper(cultureInfo) + " ";
12:        }
13:        return result;
14: }
```

1.1.2.1.4.1.6 MetinIslemleri.MetinSifrele Method**C#**

```
public static string MetinSifrele(string metin);
```

Description

This is MetinSifrele, a member of class MetinIslemleri.

Body Source

```
1: public static string MetinSifrele(string metin)
2: {
3:     if (string.IsNullOrEmpty(metin)) return metin;
4:     var metinDuzenleyici = new StringBuilder(metin);
5:     switch (metin.Length)
6:     {
7:         case 10:
8:             metinDuzenleyici.Remove(2, 6);
9:             metinDuzenleyici.Insert(2, "*****");
10:            metin = metinDuzenleyici.ToString();
11:            break;
12:        case 11:
13:            metinDuzenleyici.Remove(2, 7);
```

```

14:         metinDuzenleyici.Insert(2, "*****");
15:         metin = metinDuzenleyici.ToString();
16:         break;
17:     }
18:     return metin;
19: }

```

1.1.2.1.4.1.7 MetinIslemleri.MetinZararliKarakterDuzelt Method

C#

```
public static string MetinZararliKarakterDuzelt(string text);
```

Description

This is MetinZararliKarakterDuzelt, a member of class MetinIslemleri.

Body Source

```

1: public static string MetinZararliKarakterDuzelt(string text)
2: {
3:     text = text.Replace("&#252;", "ü");
4:     return text;
5: }

```

1.1.2.1.4.1.8 MetinIslemleri.TelefonNoDuzenle Method

Girilen telefon numarasinin SMS gönderilecek hale getirilmesini saglayan metottur.

C#

```
public static string TelefonNoDuzenle(string telefonNo);
```

Parameters

Parameters	Description
string telefonNo	Telefon No Bilgisi

Returns

Girilen Telefon Numarasinin SMS Gönderilecek Hali

Body Source

```

1: public static string TelefonNoDuzenle(string telefonNo)
2: {
3:     if (string.IsNullOrEmpty(telefonNo)) return string.Empty;
4:     telefonNo = telefonNo.Replace("-", "").Replace(" ", "").Replace("(",
5:     ").Replace(")", "");
6:     if (telefonNo.Length == 11)
7:     {
8:         telefonNo = telefonNo.Substring(telefonNo.Length - 10);
9:     }
10:    return telefonNo;
11: }

```

1.1.2.1.4.1.9 MetinIslemleri.text.First Method

C#

```
private > text.First();
```

Description

This is text.First, a member of class MetinIslemleri.

1.1.2.1.4.1.10 MetinIslemleri.text.Substring Method

C#

```
private text.Substring(1);
```

Description

This is text.Substring, a member of class MetinIslemleri.

1.1.2.1.4.1.11 MetinIslemleri.ToString Method**C#**

```
private ToString();
```

Description

This is ToString, a member of class MetinIslemleri.

1.1.2.1.4.1.12 MetinIslemleri.ToUpper Method**C#**

```
private ToUpper();
```

Description

This is ToUpper, a member of class MetinIslemleri.

1.1.2.1.4.1.13 MetinIslemleri.TurkceKarakterleriDuzelt Method

Girilen metnin basinda virgöl olup olmadigini kontrol eden metottur.

C#

```
public static string TurkceKarakterleriDuzelt(string text);
```

Parameters

Parameters	Description
string text	Girdi metni

Returns

Girilen Metnin Olmasi Gerektigi Hali

Body Source

```
1: public static string TurkceKarakterleriDuzelt(string text)
2: {
3:     text = text.Replace("ü", "u");
4:     text = text.Replace("i", "ı");
5:     text = text.Replace("ö", "o");
6:     text = text.Replace("ÿ", "u");
7:     text = text.Replace("s", "ş");
8:     text = text.Replace("g", "ğ");
9:     text = text.Replace("ç", "c");
10:    text = text.Replace("Ü", "U");
11:    text = text.Replace("İ", "I");
12:    text = text.Replace("Ö", "O");
13:    text = text.Replace("ÿ", "U");
14:    text = text.Replace("S", "Ş");
15:    text = text.Replace("G", "Ğ");
16:    text = text.Replace("Ç", "C");
17:    return text;
18: }
```

1.1.2.1.4.1.14 MetinIslemleri.UTF8Duzelt Method

Girilen metnin basinda virgöl olup olmadigini kontrol eden metottur.

C#

```
public static string UTF8Duzelt(string text);
```

Parameters

Parameters	Description
string text	Girdi metni

Returns

Girilen Metnin Olmasi Gerektigi Hali

Body Source

```

1: public static string UTF8Duzelt(string text)
2: {
3:     text = text.Replace("&cedil;", "ç");
4:     text = text.Replace("&ouml;", "ö");
5:     text = text.Replace("&uuml;", "ü");
6:     text = text.Replace("&ccedil;", "ç");
7:     text = text.Replace("&ouml;", "ö");
8:     text = text.Replace("&uuml;", "ü");
9:     return text;
10: }
```

1.1.2.1.5 Sabitler Class

Metin Sabitlerinin Bulundugu Sinif

Class Hierarchy

CSharpHelperMethods.YardimciSiniflar.Sabitler


C#

```
public static class Sabitler;
```

File

Sabitler.cs (see page 98)

Sabitler Fields

	Name	Description
	BaslangicTarihiBuyuk (see page 20)	This is BaslangicTarihiBuyuk, a member of class Sabitler.
	BaslangicTarihiGirilmedi (see page 20)	This is BaslangicTarihiGirilmedi, a member of class Sabitler.
	BaslangicVeyaBitisTarihiGirilmedi (see page 20)	This is BaslangicVeyaBitisTarihiGirilmedi, a member of class Sabitler.
	BitisTarihiGirilmedi (see page 20)	This is BitisTarihiGirilmedi, a member of class Sabitler.
	MetinGirilmedi (see page 20)	This is MetinGirilmedi, a member of class Sabitler.
	MetinIbanNoDegil (see page 20)	This is MetinIbanNoDegil, a member of class Sabitler.
	MetinSayisalDegil (see page 21)	This is MetinSayisalDegil, a member of class Sabitler.
	MetinTcKimlikNoDegil (see page 21)	This is MetinTcKimlikNoDegil, a member of class Sabitler.
	MetinTcKimlikNoVeyaVergiNoDegil (see page 21)	This is MetinTcKimlikNoVeyaVergiNoDegil, a member of class Sabitler.
	SifrelenecekMetinGirilmedi (see page 21)	This is SifrelenecekMetinGirilmedi, a member of class Sabitler.
	SifreMetniGirilmedi (see page 21)	This is SifreMetniGirilmedi, a member of class Sabitler.

1.1.2.1.5.1 Sabitler Fields

1.1.2.1.5.1.1 Sabitler.BaslangicTarihiBuyuk Field

C#

```
public static string BaslangicTarihiBuyuk = "Baslangiç Tarihi Bitis Tarihinden büyük  
olamaz.";
```

Description

This is BaslangicTarihiBuyuk, a member of class Sabitler.

1.1.2.1.5.1.2 Sabitler.BaslangicTarihiGirilmedi Field

C#

```
public static string BaslangicTarihiGirilmedi = "Baslangiç Tarihi girilmedigi için bu işlem  
gerçekleştirilemez.";
```

Description

This is BaslangicTarihiGirilmedi, a member of class Sabitler.

1.1.2.1.5.1.3 Sabitler.BaslangicVeyaBitisTarihiGirilmedi Field

C#

```
public static string BaslangicVeyaBitisTarihiGirilmedi = "Baslangiç Tarihi veya Bitis  
Tarihi girilmedigi için bu işlem gerçekleştirilemez.";
```

Description

This is BaslangicVeyaBitisTarihiGirilmedi, a member of class Sabitler.

1.1.2.1.5.1.4 Sabitler.BitisTarihiGirilmedi Field

C#

```
public static string BitisTarihiGirilmedi = "Bitis Tarihi girilmedigi için bu işlem  
gerçekleştirilemez.";
```

Description

This is BitisTarihiGirilmedi, a member of class Sabitler.

1.1.2.1.5.1.5 Sabitler.MetinGirilmedi Field

C#

```
public static string MetinGirilmedi = "Metin girilmedigi için bu işlem gerçekleştirilemez.";
```

Description

This is MetinGirilmedi, a member of class Sabitler.

1.1.2.1.5.1.6 Sabitler.MetinIbanNoDegil Field

C#

```
public static string MetinIbanNoDegil = "Girilen metin 26 karakter olmadigi için bu işlem  
gerçekleştirilemez.";
```

Description

This is MetinIbanNoDegil, a member of class Sabitler.

1.1.2.1.5.1.7 Sabitler.MetinSayisalDegil Field

C#

```
public static string MetinSayisalDegil = "Girilen metin sayisal bir deger olmadigi için bu islem gerçekleştirilemez.";
```

Description

This is MetinSayisalDegil, a member of class Sabitler.

1.1.2.1.5.1.8 Sabitler.MetinTcKimlikNoDegil Field

C#

```
public static string MetinTcKimlikNoDegil = "Girilen metin 11 karakter olmadigi için bu islem gerçekleştirilemez. Karakter Sayisi: ";
```

Description

This is MetinTcKimlikNoDegil, a member of class Sabitler.

1.1.2.1.5.1.9 Sabitler.MetinTcKimlikNoVeyaVergiNoDegil Field

C#

```
public static string MetinTcKimlikNoVeyaVergiNoDegil = "Girilen metin 10 veya 11 karakter olmadigi için bu islem gerçekleştirilemez.";
```

Description

This is MetinTcKimlikNoVeyaVergiNoDegil, a member of class Sabitler.

1.1.2.1.5.1.10 Sabitler.SifrelenecekMetinGirilmedi Field

C#

```
public static string SifrelenecekMetinGirilmedi = "Sifrelenecek metin girilmedigi için bu islem gerçekleştirilemez.";
```

Description

This is SifrelenecekMetinGirilmedi, a member of class Sabitler.

1.1.2.1.5.1.11 Sabitler.SifreMetniGirilmedi Field

C#

```
public static string SifreMetniGirilmedi = "Sifre metni girilmedigi için bu islem gerçekleştirilemez.";
```

Description

This is SifreMetniGirilmedi, a member of class Sabitler.

1.1.2.1.6 SayiIslemleri Class

Sayisal veri kontrol metotlarini barindiran sinif

Class Hierarchy

CSharpHelperMethods.YardimciSiniflar.SayiIslemleri






C#

```
public static class SayiIslemleri;
```


File

Sayislemeleri.cs (see page 99)

Sayislemeleri Methods

	Name	Description
	AltiHaneliOnayKoduOlustur (see page 22)	Sadece rakamlardan olusan 6 haneli random sayi üreten metottur.
	SayiHalineCevir (see page 22)	Ekrandan alınan string degerde virgöl olduğundan ajax metodu patladigi için Burada string olarak tutar verisi aliniyor Ve decimale çevriliyor
	SayisalMi (see page 23)	Girilen bir metnin sayi olup olmadığını kontrol eden metottur.
	SayiyiYaziyaCevir (see page 23)	Elimizdeki tutar verilerinin Yazı formatında gösterilmesini sağlayacak bir metottur
	text.All (see page 24)	This is text.All, a member of class Sayislemeleri.

1.1.2.1.6.1 Sayislemeleri Methods**1.1.2.1.6.1.1 Sayislemeleri.AltiHaneliOnayKoduOlustur Method**

Sadece rakamlardan olusan 6 haneli random sayi üreten metottur.

C#

```
public static string AltiHaneliOnayKoduOlustur();
```

Returns

6 Haneli Onay Kodu

Body Source

```
1: public static string AltiHaneliOnayKoduOlustur()
2: {
3:     var rastgele = new Random();
4:     var sb = new StringBuilder();
5:     for (var i = 0; i < 6; i++)
6:     {
7:         var ascii = rastgele.Next(48, 57); //Rakamlar
8:         var karakter = Convert.ToChar(ascii);
9:         sb.Append(karakter);
10:    }
11:
12:    return sb.ToString();
13: }
```

1.1.2.1.6.1.2 Sayislemeleri.SayiHalineCevir Method

Ekrandan alınan string degerde virgöl olduğundan ajax metodu patladigi için Burada string olarak tutar verisi aliniyor Ve decimale çevriliyor

C#

```
public static decimal SayiHalineCevir(string metin);
```

Parameters

Parameters	Description
string metin	Girilen String Deger

Returns

Decimal Deger

Body Source

```
1: public static decimal SayiHalineCevir(string metin)
```

```

2: {
3:     decimal val;
4:     if (metin.Contains("_") || metin.Contains(".") || metin.Contains(","))
5:     {
6:         if (!decimal.TryParse(metin.Replace(",", "").Replace(".", "").Replace("_", ""),
NumberStyles.Number,
7:             CultureInfo.InvariantCulture, out val))
8:             return 0;
9:         return val / 100;
10:    }
11:
12:    var value = decimal.TryParse(metin.Replace(",", "").Replace(".", "").Replace("_",
13:        ","), NumberStyles.Number,
14:        CultureInfo.InvariantCulture, out val);
15:    return value ? val : 0;
16: }

```

1.1.2.1.6.1.3 Sayıİslemleri.SayısalMi Method

Girilen bir metnin sayı olup olmadığını kontrol eden metottur.

C#

```
public static bool SayısalMi(string text);
```

Parameters

Parameters	Description
string text	Girdi metni

Returns

Girilen Metnin Sayısal Olup Olmadığı Bilgisi

1.1.2.1.6.1.4 Sayıİslemleri.SayıYazıyaCevir Method

Elimizdeki tutar verilerinin Yazı formatında gösterilmesini sağlayacak bir metottur

C#

```
public static string SayıYazıyaCevir(decimal tutar);
```

Parameters

Parameters	Description
decimal tutar	Girilen Sayı Bilgisi

Returns

Sayının Yazıya Dönüştürülmüş Hali

Body Source

```

1: public static string SayıYazıyaCevir(decimal tutar)
2: {
3:     var sTutar = tutar.ToString("F2").Replace('.', ','); // Replace('.', ',') ondalik
ayracinin . olma durumu için
4:     var lira = sTutar.Substring(0, sTutar.IndexOf(',')); //tutarin tam kısmi
5:     var kurus = sTutar.Substring(sTutar.IndexOf(',') + 1, 2);
6:     var yazi = new StringBuilder();
7:
8:     var birler = new[] { "", "BİR", "İKİ", "ÜÇ", "DÖRT", "BES", "ALTI", "YEDİ", "SEKİZ",
"DOKUZ" };
9:     var onlar = new[] { "", "ON", "YIRMI", "OTUZ", "KIRK", "ELLİ", "ALTMIS", "YETMİS",
"SEKSEN", "DOKSAN" };
10:    var binler = new[] { "KENTRİLYON", "KATRİLYON", "TRİLYON", "MİLYAR", "MİLYON",
"BİN", "" };
11:
12:    const int grupSayisi = 7;
13:    //sayidaki 3'lü grup sayısı. katrilyon içi 6. (1.234,00 daki grup sayısı 2'dir.)

```

```

14:      //KATRILYON'un basina ekleyeceginiz her deger için grup sayisini artiriniz.
15:
16:      lira = lira.PadLeft(grupSayisi * 3, '0'); //sayinin soluna '0' eklenerek sayi 'grup
sayisi x 3' basamakli yapiliyor.
17:
18:      for (var i = 0; i < grupSayisi * 3; i += 3) //sayi 3'erli gruplar halinde ele
aliniyor.
19:      {
20:          var grupDegeri = new StringBuilder();
21:
22:          if (lira.Substring(i, 1) != "0")
23:              grupDegeri.Append(birler[Convert.ToInt32(lira.Substring(i, 1))] + "YÜZ");
//yüzler
24:          if (grupDegeri.ToString().Equals("BIRYÜZ"))
25:              grupDegeri.Replace("BIRYÜZ", "YÜZ");
26:          grupDegeri.Append(onlar[Convert.ToInt32(lira.Substring(i + 1, 1))]); //onlar
27:          grupDegeri.Append(birler[Convert.ToInt32(lira.Substring(i + 2,
1))]); //birler
28:          if (grupDegeri.Length > 0) //binler
29:              grupDegeri.Append(binler[i / 3]);
30:          if (grupDegeri.ToString().Equals("BIRBIN"))
31:              grupDegeri.Replace("BIRBIN", "BIN");
32:
33:          yazi.Append(grupDegeri);
34:      }
35:
36:      if (yazi.Length > 0)
37:          yazi.Append(" TL ");
38:
39:      var yaziUzunlugu = yazi.Length;
40:
41:      if (kurus.Substring(0, 1) != "0") //kurus onlar
42:          yazi.Append(onlar[Convert.ToInt32(kurus.Substring(0, 1))]);
43:
44:      if (kurus.Substring(1, 1) != "0") //kurus birler
45:          yazi.Append(birler[Convert.ToInt32(kurus.Substring(1, 1))]);
46:
47:      yazi.Append(yazi.Length > yaziUzunlugu ? " KR." : "SIFIR KR.");
48:
49:      return yazi.ToString();
50: }

```

1.1.2.1.6.1.5 SayiIslemleri.text.All Method

C#

```
private > text.All(char.IsNumber);
```

Description

This is text.All, a member of class SayiIslemleri.

1.1.2.1.7 Sifrelemelslemleri Class

Sifre ile ilgili islemler sinifi

Class Hierarchy

```
CSharpHelperMethods.YardimciSiniflar.Sifrelemelslemleri
```

C#

```
public static class SifrelemeIslemleri;
```

File

Sifrelemelslemleri.cs (see page 102)

Sifrelemelslemleri Methods

	Name	Description
💎💎💎	HesaplaMD5 (🔗 see page 25)	Kullanici sifresinin MD5 yöntemiyle sifrenmesini saglayan metottur.
💎💎💎	HesaplaSHA256 (🔗 see page 25)	Kullanici sifresinin SHA yöntemiyle sifrenmesini saglayan metottur.
💎💎💎	HesaplaSHA512 (🔗 see page 26)	Kullanici sifresinin SHA yöntemiyle sifrenmesini saglayan metottur.
💎💎💎	RastgeleSifreUret (🔗 see page 26)	8 karakter uzunlugunda Rastgele sifre olusturur.
💎💎💎	SifreUygunMu (🔗 see page 26)	sifreyi kriterlere göre kontrol edip uymayan kosullarini string listesine geri dönüş yapan methoddur. Uygun olmasi durumunda null döndürecektir.

1.1.2.1.7.1 Sifrelemelslemleri Methods**1.1.2.1.7.1.1 Sifrelemelslemleri.HesaplaMD5 Method**

Kullanici sifresinin MD5 yöntemiyle sifrenmesini saglayan metottur.

C#

```
public static string HesaplaMD5(string text);
```

Parameters

Parameters	Description
string text	Sifrelenecek Metin

Returns

Girdi Metninin Sifrenmis Hali

Body Source

```
1: public static string HesaplaMD5(string text)
2: {
3:     var md5 = MD5.Create();
4:     var inputBytes = Encoding.ASCII.GetBytes(text);
5:     var hash = md5.ComputeHash(inputBytes);
6:
7:     var sb = new StringBuilder();
8:     foreach (var t in hash)
9:     {
10:         sb.Append(t.ToString("X2"));
11:     }
12:     return sb.ToString();
13: }
```

1.1.2.1.7.1.2 Sifrelemelslemleri.HesaplaSHA256 Method

Kullanici sifresinin SHA yöntemiyle sifrenmesini saglayan metottur.

C#

```
public static string HesaplaSHA256(string text);
```

Parameters

Parameters	Description
string text	Sifrelenecek Metin

Returns

Girdi Metninin Sifrenmis Hali

Body Source

```
1: public static string HesaplaSHA256(string text)
2: {
```

```

3:     var sha256 = SHA256.Create();
4:     var bytes = Encoding.UTF8.GetBytes(text);
5:     var hash = sha256.ComputeHash(bytes);
6:     var result = new StringBuilder();
7:     foreach (var t in hash)
8:     {
9:         result.Append(t.ToString("X2"));
10:    }
11:    return result.ToString();
12: }

```

1.1.2.1.7.1.3 Sifrelemelslemleri.HesaplaSHA512 Method

Kullanici sifresinin SHA yöntemiyle sifrelenmesini saglayan metottur.

C#

```
public static string HesaplaSHA512(string text);
```

Parameters

Parameters	Description
string text	Sifrelenecek Metin

Returns

Girdi Metninin Sifrelenmis Hali

Body Source

```

1: public static string HesaplaSHA512(string text)
2: {
3:     var sha512 = new SHA512Managed();
4:     var encryptedSha512 = sha512.ComputeHash(Encoding.UTF8.GetBytes(text));
5:     var strHex = encryptedSha512.Aggregate("", (current, b) => $"{current}{b:x2}");
6:     return strHex.ToUpper();
7: }

```

1.1.2.1.7.1.4 Sifrelemelslemleri.RastgeleSifreUret Method

8 karakter uzunlugunda Rastgele sifre olusturur.

C#

```
public static string RastgeleSifreUret();
```

Returns

Sifrelenmis Metin Bilgisi

Body Source

```

1: public static string RastgeleSifreUret()
2: {
3:     var sifreUzunluk = 8;
4:     const string gecerliKarakterler = "abcdefghijklmnopqrstuvwxyz1234567890";
5:     var sifre = new StringBuilder(100);
6:     var random = new Random();
7:     while (0 < sifreUzunluk--)
8:     {
9:         sifre.Append(gecerliKarakterler[random.Next(gecerliKarakterler.Length)]);
10:    }
11:    return sifre.ToString();
12: }

```

1.1.2.1.7.1.5 Sifrelemelslemleri.SifreUygunMu Method

sifreyi kriterlere göre kontrol edip uymayan kosullarini string listesine geri dönüs yapan methoddur. Uygun olmasi durumunda null döndürecektir.

C#

```
public static string SifreUygunMu(string text);
```

Parameters

Parameters	Description
string text	Kullanici Sifresi

Returns

Sifrenin Uygun Olup Olmadigi Bilgisi (Açiklamasi ile beraber)

Body Source

```
1: public static string SifreUygunMu(string text)
2: {
3:     //bu kisimda sifrenin olmasi gereken kosullari degerlendirilecek.
4:     var mesajlar = new List<string>();
5:
6:     if (text.Length < 8)
7:         mesajlar.Add("Parola en az 8 karakter olmalidir.");
8:
9:     if (!Regex.IsMatch(text, @"^(?=.*[a-z])", RegexOptions.ECMAScript))
10:        mesajlar.Add("Parola en az bir küçük harf içermelidir.");
11:
12:     if (!Regex.IsMatch(text, @"^(?=.*[A-Z])", RegexOptions.ECMAScript))
13:        mesajlar.Add("Parola en az bir büyük harf içermelidir.");
14:
15:     if (!Regex.IsMatch(text, @"^(?=.*[!@#%&*,?_~.-,()])",
16:        RegexOptions.ECMAScript))
17:        mesajlar.Add("Parola en az bir noktalama isareti içermelidir.");
18:
19:     if (!Regex.IsMatch(text, @"^(?=.*[0-9])", RegexOptions.ECMAScript))
20:        mesajlar.Add("Parola en az bir rakam içermelidir.");
21:
22:     if (mesajlar.Count < 1)
23:         return "Uygun";
24:     var sonuc = mesajlar.Aggregate("", (current, item) => current + item + ", ");
25:     sonuc = sonuc.Substring(0, sonuc.Length - 2);
26:     return sonuc;
27: }
```

1.1.2.1.8 Siralamalslemleri Class

Alfa numerik siralama için hazirlanmis bir metod

Class Hierarchy

CSharpHelperMethods.YardimciSiniflar.Siralamalslemleri

C#

```
public static class SiralamaIslemleri;
```



File

Siralamalslemleri.cs (see page 104)

Siralamalslemleri Enumerations

	Name	Description
	ChunkType (see page 28)	This is record CSharpHelperMethods.YardimciSiniflar.Siralamalslemleri.ChunkType.

Siralamalslemleri Methods

	Name	Description
	Compare (see page 28)	This is Compare, a member of class Siralamalslemleri.
	InChunk (see page 29)	This is InChunk, a member of class Siralamalslemleri.

1.1.2.1.8.1 Siralamalslemleri Enumerations**1.1.2.1.8.1.1 CSharpHelperMethods.YardimciSiniflar.Siralamalslemleri.ChunkType Enumeration****C#**

```
private enum ChunkType {
    Alphanumeric,
    Numeric
}
```

File

Siralamalslemleri.cs ([see page 104](#))

Description

This is record CSharpHelperMethods.YardimciSiniflar.Siralamalslemleri.ChunkType.

1.1.2.1.8.2 Siralamalslemleri Methods**1.1.2.1.8.2.1 Siralamalslemleri.Compare Method****C#**

```
public static int Compare(string x, string y);
```

Description

This is Compare, a member of class Siralamalslemleri.

Body Source

```
1: public static int Compare(string x, string y)
2: {
3:     if (IsNullOrEmpty(x) || IsNullOrEmpty(y)) return 0;
4:     var thisMarker = 0;
5:     var thatMarker = 0;
6:
7:     while (thisMarker < x.Length || thatMarker < y.Length)
8:     {
9:         if (thisMarker >= x.Length)
10:         {
11:             return -1;
12:         }
13:         if (thatMarker >= y.Length)
14:         {
15:             return 1;
16:         }
17:
18:         var thisCh = x[thisMarker];
19:         var thatCh = y[thatMarker];
20:
21:         var thisChunk = new StringBuilder();
22:         var thatChunk = new StringBuilder();
23:
24:         while (thisMarker < x.Length && (thisChunk.Length == 0 || InChunk(thisCh,
thisChunk[0])))
25:         {
26:             thisChunk.Append(thisCh);
```

```

27:         thisMarker++;
28:
29:         if (thisMarker < x.Length)
30:         {
31:             thisCh = x[thisMarker];
32:         }
33:     }
34:
35:     while (thatMarker < y.Length && (thatChunk.Length == 0 || InChunk(thatCh,
thatChunk[0])))
36:     {
37:         thatChunk.Append(thatCh);
38:         thatMarker++;
39:
40:         if (thatMarker < y.Length)
41:         {
42:             thatCh = y[thatMarker];
43:         }
44:     }
45:
46:     var result = 0;
47:     // If both chunks contain numeric characters, sort them numerically
48:     if (char.IsDigit(thisChunk[0]) && char.IsDigit(thatChunk[0]))
49:     {
50:         var thisNumericChunk = Convert.ToInt64(thisChunk.ToString());
51:         var thatNumericChunk = Convert.ToInt64(thatChunk.ToString());
52:
53:         if (thisNumericChunk < thatNumericChunk)
54:         {
55:             result = -1;
56:         }
57:
58:         if (thisNumericChunk > thatNumericChunk)
59:         {
60:             result = 1;
61:         }
62:     }
63:     else
64:     {
65:         var ci = new CultureInfo("tr-TR");
66:         result = String.Compare(thisChunk.ToString(), thatChunk.ToString(), true,
ci);
67:         //result = thisChunk.ToString().CompareTo(thatChunk.ToString());
68:     }
69:
70:     if (result == 0) continue;
71:     return result;
72: }
73: }
74: return 0;
75: }

```

1.1.2.1.8.2.2 Siralamalslemleri.InChunk Method

C#

```
private static bool InChunk(char ch, char otherCh);
```

Description

This is InChunk, a member of class Siralamalslemleri.

Body Source

```

1: private static bool InChunk(char ch, char otherCh)
2: {
3:     var type = ChunkType.Alphanumeric;
4:
5:     if (char.IsDigit(otherCh))
6:     {
7:         type = ChunkType.Numeric;

```



```

8:     }
9:
10:    return (type != ChunkType.Alphanumeric || !char.IsDigit(ch)) && (type !=
ChunkType.Numeric || char.IsDigit(ch));
11: }

```

1.1.2.1.9 Tarihslemleri Class

Tarihsel veri kontrol metotlarini barindiran sinif

Class Hierarchy

CSharpHelperMethods.YardimciSiniflar.Tarihslemleri








C#

```
public static class Tarihslemleri;
```

File

Tarihslemleri.cs (see page 105)

Tarihslemleri Methods

	Name	Description
	AyFarki (see page 30)	Girilen iki tarih arasinda kaç ay oldugunu bulan metottur
	KidemTazminatıTarihAraligiHesapla (see page 30)	Kidem Tazminati Hesaplama Yapilirken ayda kaç gün olursa olsun tamaminda çalismisa 30 gün üzerinden hesaplanmasi gerektiği için Isten ayrilis ve is baslangiç tarihleri arasinda kaç gün geçtiğini belirtmek için Hesaplama yapılmasını saglayan metottur.
	Math.Abs (see page 31)	This is Math.Abs, a member of class Tarihslemleri.
	TarihAraligiHesapla (see page 32)	İki tarih arasinda kaç gün oldugunu hesaplamak için kullanılan metottur
	YasHesapla (see page 32)	Yas hesaplamak için kullanılan metottur
	YasHesaplaMetinsel (see page 33)	Yas hesaplamak için kullanılan metottur
	ZamaniDegistir (see page 34)	Filtre ekranlarında baslangiç ve bitis tarihi üzerinden sorgulama yapıldığında Eger ayni gün için sorgulama yapiliyorsa Bitis tarihini o günün 23.59.59.999'una ayarlamak için Hazirlanan metottur

1.1.2.1.9.1 Tarihslemleri Methods

1.1.2.1.9.1.1 Tarihslemleri.AyFarki Method

Girilen iki tarih arasinda kaç ay oldugunu bulan metottur

C#

```
public static int AyFarki(DateTime lValue, DateTime rValue);
```

Parameters

Parameters	Description
DateTime lValue	İlk tarih bilgisi
DateTime rValue	Son tarih bilgisi

Returns

Ay Farki Bilgisi

1.1.2.1.9.1.2 Tarihslemleri.KidemTazminatıTarihAraligiHesapla Method

Kidem Tazminati Hesaplama Yapilirken ayda kaç gün olursa olsun tamaminda çalismisa 30 gün üzerinden hesaplanmasi gerektiği için Isten ayrilis ve is baslangiç tarihleri arasinda kaç gün geçtiğini belirtmek için Hesaplama yapılmasını saglayan

metottur.

C#

```
public static int KidemTazminatiTarihAraligiHesapla(DateTime? baslangicTarihi, DateTime? bitisTarihi);
```

Parameters

Parameters	Description
DateTime? baslangicTarihi	Baslangiç Tarihi Bilgisi
DateTime? bitisTarihi	Bitis Tarihi Bilgisi

Returns

Gün Sayisi Bilgisi

Body Source

```
1: public static int KidemTazminatiTarihAraligiHesapla(DateTime? baslangicTarihi,
DateTime? bitisTarihi)
2: {
3:     var artacakMi = true;
4:     var result = 0;
5:     var baslangicMi = false;
6:     var bitisMi = false;
7:     var aylikGunSayisi = 0;
8:     for (var date = (DateTime)baslangicTarihi; date <= (DateTime)bitisTarihi; date =
date.AddDays(1))
9:     {
10:         if (!artacakMi)
11:             result++;
12:         else
13:             artacakMi = false;
14:
15:         if (date.Day == 1)
16:             baslangicMi = true;
17:         else if (date.Day == DateTime.DaysInMonth(date.Year, date.Month))
18:             bitisMi = true;
19:
20:         if (baslangicMi)
21:             aylikGunSayisi++;
22:         if (baslangicMi && bitisMi && aylikGunSayisi != 30)
23:         {
24:             result = result - aylikGunSayisi + 30;
25:             baslangicMi = false;
26:             bitisMi = false;
27:             aylikGunSayisi = 0;
28:         }
29:         else if (bitisMi)
30:         {
31:             baslangicMi = false;
32:             bitisMi = false;
33:             aylikGunSayisi = 0;
34:         }
35:     }
36:
37:     if (baslangicTarihi.Value.Day > bitisTarihi.Value.Day)
38:         result--;
39:     return result;
40: }
```

1.1.2.1.9.1.3 TarihIslemleri.Math.Abs Method

C#

```
private > Math.Abs(lValue.Month - rValue.Month + 12 * (lValue.Year - rValue.Year));
```

Description

This is Math.Abs, a member of class Tarihslemleri.

1.1.2.1.9.1.4 Tarihslemleri.TarihAraligiHesapla Method

İki tarih arasında kaç gün olduğunu hesaplamak için kullanılan metottur

C#

```
public static string TarihAraligiHesapla(DateTime baslangicTarihi, DateTime bitisTarihi);
```

Parameters

Parameters	Description
DateTime baslangicTarihi	Baslangıç Tarihi Bilgisi
DateTime bitisTarihi	Bitis Tarihi Bilgisi

Returns

Tarih Araligi Bilgisi

Body Source

```
1: public static string TarihAraligiHesapla(DateTime baslangicTarihi, DateTime bitisTarihi)
2: {
3:     var years = new DateTime(bitisTarihi.Subtract(baslangicTarihi).Ticks).Year - 1;
4:     var pastYearDate = baslangicTarihi.AddYears(years);
5:     var months = 0;
6:     for (var i = 1; i <= 12; i++)
7:     {
8:         if (pastYearDate.AddMonths(i) == bitisTarihi)
9:         {
10:             months = i;
11:             break;
12:         }
13:
14:         if (pastYearDate.AddMonths(i) < bitisTarihi) continue;
15:         months = i - 1;
16:         break;
17:     }
18:     var days = bitisTarihi.Subtract(pastYearDate.AddMonths(months)).Days;
19:     var result = new StringBuilder();
20:     result.Append(years.ToString().PadLeft(2, '0'));
21:     result.Append(" Yıl, ");
22:     result.Append(months.ToString().PadLeft(2, '0'));
23:     result.Append(" Ay, ");
24:     result.Append(days.ToString().PadLeft(2, '0'));
25:     result.Append(" Gün");
26:     return result.ToString();
27: }
```

1.1.2.1.9.1.5 Tarihslemleri.YasHesapla Method

Yas hesaplamak için kullanılan metottur

C#

```
public static int YasHesapla(DateTime dogumTarihi);
```

Parameters

Parameters	Description
DateTime dogumTarihi	Dogum Tarihi Bilgisi

Returns

Yas Bilgisi

Body Source

```

1: public static int YasHesapla(DateTime dogumTarihi)
2: {
3:     var now = DateTime.Now;
4:     var years = new DateTime(DateTime.Now.Subtract(dogumTarihi).Ticks).Year - 1;
5:     var pastYearDate = dogumTarihi.AddYears(years);
6:     var months = 0;
7:     for (var i = 1; i <= 12; i++)
8:     {
9:         if (pastYearDate.AddMonths(i) == now)
10:        {
11:            months = i;
12:            break;
13:        }
14:
15:        if (pastYearDate.AddMonths(i) < now) continue;
16:        months = i - 1;
17:        break;
18:    }
19:    return years;
20: }

```

1.1.2.1.9.1.6 Tarihslemleri.YasHesaplaMetinsel Method

Yas hesaplamak için kullanılan metottur

C#

```
public static string YasHesaplaMetinsel(DateTime dogumTarihi);
```

Parameters

Parameters	Description
DateTime dogumTarihi	Dogum Tarihi Bilgisi

Returns

Yas Bilgisi (Metinsel olarak)

Body Source

```

1: public static string YasHesaplaMetinsel(DateTime dogumTarihi)
2: {
3:     var now = DateTime.Now;
4:     var years = new DateTime(DateTime.Now.Subtract(dogumTarihi).Ticks).Year - 1;
5:     var pastYearDate = dogumTarihi.AddYears(years);
6:     var months = 0;
7:     for (var i = 1; i <= 12; i++)
8:     {
9:         if (pastYearDate.AddMonths(i) == now)
10:        {
11:            months = i;
12:            break;
13:        }
14:
15:        if (pastYearDate.AddMonths(i) < now) continue;
16:        months = i - 1;
17:        break;
18:    }
19:    var days = now.Subtract(pastYearDate.AddMonths(months)).Days;
20:    var hours = now.Subtract(pastYearDate).Hours;
21:    var minutes = now.Subtract(pastYearDate).Minutes;
22:    var seconds = now.Subtract(pastYearDate).Seconds;
23:    return $"Yas: {years} Yil {months} Ay {days} Gün";
24:    //return String.Format("Yas: {0} Yil {1} Ay {2} Gün {3} Saat {4} Saniye",
25:    //years, months, Days, Hours, Seconds);
26: }

```

1.1.2.1.9.1.7 Tarihslemleri.ZamaniDegistir Method

Filtre ekranlarında başlangıç ve bitis tarihi üzerinden sorgulama yapıldığında Eger aynı gün için sorgulama yapılıyorsa Bitis tarihini o günün 23.59.59.999'una ayarlamak için Hazırlanan metottur

C#

```
public static DateTime ZamaniDegistir(this DateTime dateTime, int hours, int minutes, int seconds, int milliseconds);
```

Parameters

Parameters	Description
this DateTime dateTime	Tarih Bilgisi
int hours	Saat Bilgisi
int minutes	Dakika Bilgisi
int seconds	Saniye Bilgisi
int milliseconds	Mili Saniye Bilgisi

Returns

Yeni Tarih Bilgisi



Body Source

```
1: public static DateTime ZamaniDegistir(this DateTime dateTime, int hours, int minutes,
2: int seconds, int milliseconds)
3: {
4:     return new DateTime(
5:         dateTime.Year,
6:         dateTime.Month,
7:         dateTime.Day,
8:         hours,
9:         minutes,
10:        seconds,
11:        milliseconds,
12:        dateTime.Kind);
12: }
```

1.1.3 Classes

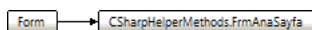
The following table lists classes in this documentation.

Classes

	Name	Description
	FrmAnaSayfa (see page 34)	This is class CSharpHelperMethods.FrmAnaSayfa.
	Program (see page 64)	This is class CSharpHelperMethods.Program.

1.1.3.1 FrmAnaSayfa Class

Class Hierarchy



C#

```
public class FrmAnaSayfa : Form;
```


File

FrmAnaSayfa.Designer.cs ([see page 80](#))






Description

This is class CSharpHelperMethods.FrmAnaSayfa.

Methods





	Name	Description
	FrmAnaSayfa (see page 36)	This is FrmAnaSayfa, a member of class FrmAnaSayfa.

FrmAnaSayfa Fields

	Name	Description
	btnAyFarki (see page 37)	This is btnAyFarki, a member of class FrmAnaSayfa.
	btnEPostaDogrula (see page 37)	This is btnEPostaDogrula, a member of class FrmAnaSayfa.
	btnIbanDogrula (see page 37)	This is btnIbanDogrula, a member of class FrmAnaSayfa.
	btnIlkHarfiBuyukYap (see page 37)	This is btnIlkHarfiBuyukYap, a member of class FrmAnaSayfa.
	btnIlkHarfleriBuyukYap (see page 37)	This is btnIlkHarfleriBuyukYap, a member of class FrmAnaSayfa.
	btnMd5Hash (see page 37)	This is btnMd5Hash, a member of class FrmAnaSayfa.
	btnMetinSifrele (see page 38)	This is btnMetinSifrele, a member of class FrmAnaSayfa.
	btnMetneDonustur (see page 38)	This is btnMetneDonustur, a member of class FrmAnaSayfa.
	btnOnayKoduOlustur (see page 38)	This is btnOnayKoduOlustur, a member of class FrmAnaSayfa.
	btnRastgeleSifreUret (see page 38)	This is btnRastgeleSifreUret, a member of class FrmAnaSayfa.
	btnSayisalMi (see page 38)	This is btnSayisalMi, a member of class FrmAnaSayfa.
	btnSha256Hash (see page 38)	This is btnSha256Hash, a member of class FrmAnaSayfa.
	btnSha512Hash (see page 38)	This is btnSha512Hash, a member of class FrmAnaSayfa.
	btnSifreUygunMu (see page 39)	This is btnSifreUygunMu, a member of class FrmAnaSayfa.
	btnTarihAraligi (see page 39)	This is btnTarihAraligi, a member of class FrmAnaSayfa.
	btnTcKimlikDogrula (see page 39)	This is btnTcKimlikDogrula, a member of class FrmAnaSayfa.
	btnTelefonNoDuzenle (see page 39)	This is btnTelefonNoDuzenle, a member of class FrmAnaSayfa.
	btnTurkceKarakterDuzelt (see page 39)	This is btnTurkceKarakterDuzelt, a member of class FrmAnaSayfa.
	btnYasHesapla (see page 39)	This is btnYasHesapla, a member of class FrmAnaSayfa.
	btnYasHesaplaMetinsel (see page 40)	This is btnYasHesaplaMetinsel, a member of class FrmAnaSayfa.
	cmbIstemTuru (see page 40)	This is cmbIstemTuru, a member of class FrmAnaSayfa.
	components (see page 40)	Required designer variable.
	dtpBaslangicTarihi (see page 40)	This is dtpBaslangicTarihi, a member of class FrmAnaSayfa.
	dtpBitisTarihi (see page 40)	This is dtpBitisTarihi, a member of class FrmAnaSayfa.
	label1 (see page 40)	This is label1, a member of class FrmAnaSayfa.
	label10 (see page 40)	This is label10, a member of class FrmAnaSayfa.
	label11 (see page 41)	This is label11, a member of class FrmAnaSayfa.
	label12 (see page 41)	This is label12, a member of class FrmAnaSayfa.
	label13 (see page 41)	This is label13, a member of class FrmAnaSayfa.
	label14 (see page 41)	This is label14, a member of class FrmAnaSayfa.
	label15 (see page 41)	This is label15, a member of class FrmAnaSayfa.

	label16 (see page 41)	This is label16, a member of class FrmAnaSayfa.
	label17 (see page 41)	This is label17, a member of class FrmAnaSayfa.
	label2 (see page 42)	This is label2, a member of class FrmAnaSayfa.
	label3 (see page 42)	This is label3, a member of class FrmAnaSayfa.
	label4 (see page 42)	This is label4, a member of class FrmAnaSayfa.
	label5 (see page 42)	This is label5, a member of class FrmAnaSayfa.
	label6 (see page 42)	This is label6, a member of class FrmAnaSayfa.
	label7 (see page 42)	This is label7, a member of class FrmAnaSayfa.
	label8 (see page 43)	This is label8, a member of class FrmAnaSayfa.
	label9 (see page 43)	This is label9, a member of class FrmAnaSayfa.
	lbKisiSonuc (see page 43)	This is lbKisiSonuc, a member of class FrmAnaSayfa.
	lbMetinSonuc (see page 43)	This is lbMetinSonuc, a member of class FrmAnaSayfa.
	lbSayiSonuc (see page 43)	This is lbSayiSonuc, a member of class FrmAnaSayfa.
	lbSifreSonuc (see page 43)	This is lbSifreSonuc, a member of class FrmAnaSayfa.
	lbSonuc (see page 43)	This is lbSonuc, a member of class FrmAnaSayfa.
	pnlKisilislemleri (see page 44)	This is pnlKisilislemleri, a member of class FrmAnaSayfa.
	pnlMetinIslemleri (see page 44)	This is pnlMetinIslemleri, a member of class FrmAnaSayfa.
	pnlSayiIslemleri (see page 44)	This is pnlSayiIslemleri, a member of class FrmAnaSayfa.
	pnlSifreIslemleri (see page 44)	This is pnlSifreIslemleri, a member of class FrmAnaSayfa.
	pnlTarihIslemleri (see page 44)	This is pnlTarihIslemleri, a member of class FrmAnaSayfa.
	txtKisiMetni (see page 44)	This is txtKisiMetni, a member of class FrmAnaSayfa.
	txtMetin (see page 45)	This is txtMetin, a member of class FrmAnaSayfa.
	txtSayi (see page 45)	This is txtSayi, a member of class FrmAnaSayfa.
	txtSifrelenecekMetin (see page 45)	This is txtSifrelenecekMetin, a member of class FrmAnaSayfa.

FrmAnaSayfa Methods

	Name	Description
	cmbIslemTuru_SelectedIndexChanged (see page 45)	Islem Türü Combobox'ında seçilen degere göre Ekrandaki panellerden ilgili olan haricinde hepsinin erişilemez hale getirilmesi Eger bir sey seçilmemisse, tamamının erişilemez hale getirilmesi için Gerekli işlemlerin gerçekleştirildiği metottur.
	Dispose (see page 53)	Clean up any resources being used.
	FrmAnaSayfa_Load (see page 54)	Form İlk Yüklendiği zaman ekrandaki bütün panellerin erişilemez hale getirilmesi sağlanıyor Bu metotta, çünkü hangi panelin aktifleceğinin Combobox üzerinden seçilmesi lazım
	InitializeComponent (see page 54)	Required method for Designer support - do not modify the contents of this method with the code editor.

1.1.3.1.1 FrmAnaSayfa.FrmAnaSayfa Constructor

C#

```
public FrmAnaSayfa();
```

Description

This is FrmAnaSayfa, a member of class FrmAnaSayfa.

Body Source

```
1: public FrmAnaSayfa()
2: {
3:     InitializeComponent();
```

```
4: }
```

1.1.3.1.2 FrmAnaSayfa Fields

1.1.3.1.2.1 FrmAnaSayfa.btnAyFarki Field

C#

```
private System.Windows.Forms.Button btnAyFarki;
```

Description

This is btnAyFarki, a member of class FrmAnaSayfa.

1.1.3.1.2.2 FrmAnaSayfa.btnEPostaDogrula Field

C#

```
private System.Windows.Forms.Button btnEPostaDogrula;
```

Description

This is btnEPostaDogrula, a member of class FrmAnaSayfa.

1.1.3.1.2.3 FrmAnaSayfa.btnIbanDogrula Field

C#

```
private System.Windows.Forms.Button btnIbanDogrula;
```

Description

This is btnIbanDogrula, a member of class FrmAnaSayfa.

1.1.3.1.2.4 FrmAnaSayfa.btnIlkHarfiBuyukYap Field

C#

```
private System.Windows.Forms.Button btnIlkHarfiBuyukYap;
```

Description

This is btnIlkHarfiBuyukYap, a member of class FrmAnaSayfa.

1.1.3.1.2.5 FrmAnaSayfa.btnIlkHarfleriBuyukYap Field

C#

```
private System.Windows.Forms.Button btnIlkHarfleriBuyukYap;
```

Description

This is btnIlkHarfleriBuyukYap, a member of class FrmAnaSayfa.

1.1.3.1.2.6 FrmAnaSayfa.btnMd5Hash Field

C#

```
private System.Windows.Forms.Button btnMd5Hash;
```

Description

This is btnMd5Hash, a member of class FrmAnaSayfa.

1.1.3.1.2.7 FrmAnaSayfa.btnMetinSifrele Field

C#

```
private System.Windows.Forms.Button btnMetinSifrele;
```

Description

This is btnMetinSifrele, a member of class FrmAnaSayfa.

1.1.3.1.2.8 FrmAnaSayfa.btnMetneDonustur Field

C#

```
private System.Windows.Forms.Button btnMetneDonustur;
```

Description

This is btnMetneDonustur, a member of class FrmAnaSayfa.

1.1.3.1.2.9 FrmAnaSayfa.btnOnayKoduOlustur Field

C#

```
private System.Windows.Forms.Button btnOnayKoduOlustur;
```

Description

This is btnOnayKoduOlustur, a member of class FrmAnaSayfa.

1.1.3.1.2.10 FrmAnaSayfa.btnRastgeleSifreUret Field

C#

```
private System.Windows.Forms.Button btnRastgeleSifreUret;
```

Description

This is btnRastgeleSifreUret, a member of class FrmAnaSayfa.

1.1.3.1.2.11 FrmAnaSayfa.btnSayisalMi Field

C#

```
private System.Windows.Forms.Button btnSayisalMi;
```

Description

This is btnSayisalMi, a member of class FrmAnaSayfa.

1.1.3.1.2.12 FrmAnaSayfa.btnSha256Hash Field

C#

```
private System.Windows.Forms.Button btnSha256Hash;
```

Description

This is btnSha256Hash, a member of class FrmAnaSayfa.

1.1.3.1.2.13 FrmAnaSayfa.btnSha512Hash Field

C#

```
private System.Windows.Forms.Button btnSha512Hash;
```

Description

This is btnSha512Hash, a member of class FrmAnaSayfa.

1.1.3.1.2.14 FrmAnaSayfa.btnSifreUygunMu Field**C#**

```
private System.Windows.Forms.Button btnSifreUygunMu;
```

Description

This is btnSifreUygunMu, a member of class FrmAnaSayfa.

1.1.3.1.2.15 FrmAnaSayfa.btnTarihAraligi Field**C#**

```
private System.Windows.Forms.Button btnTarihAraligi;
```

Description

This is btnTarihAraligi, a member of class FrmAnaSayfa.

1.1.3.1.2.16 FrmAnaSayfa.btnTcKimlikDogrula Field**C#**

```
private System.Windows.Forms.Button btnTcKimlikDogrula;
```

Description

This is btnTcKimlikDogrula, a member of class FrmAnaSayfa.

1.1.3.1.2.17 FrmAnaSayfa.btnTelefonNoDuzenle Field**C#**

```
private System.Windows.Forms.Button btnTelefonNoDuzenle;
```

Description

This is btnTelefonNoDuzenle, a member of class FrmAnaSayfa.

1.1.3.1.2.18 FrmAnaSayfa.btnTurkceKarakterDuzelt Field**C#**

```
private System.Windows.Forms.Button btnTurkceKarakterDuzelt;
```

Description

This is btnTurkceKarakterDuzelt, a member of class FrmAnaSayfa.

1.1.3.1.2.19 FrmAnaSayfa.btnYasHesapla Field**C#**

```
private System.Windows.Forms.Button btnYasHesapla;
```

Description

This is btnYasHesapla, a member of class FrmAnaSayfa.

1.1.3.1.2.20 FrmAnaSayfa.btnYasHesaplaMetinsel Field

C#

```
private System.Windows.Forms.Button btnYasHesaplaMetinsel;
```

Description

This is btnYasHesaplaMetinsel, a member of class FrmAnaSayfa.

1.1.3.1.2.21 FrmAnaSayfa.cmbIslemTuru Field

C#

```
private System.Windows.Forms.ComboBox cmbIslemTuru;
```

Description

This is cmbIslemTuru, a member of class FrmAnaSayfa.

1.1.3.1.2.22 FrmAnaSayfa.components Field

Required designer variable.

C#

```
private System.ComponentModel.IContainer components = null;
```

1.1.3.1.2.23 FrmAnaSayfa.dtpBaslangicTarihi Field

C#

```
private System.Windows.Forms.DateTimePicker dtpBaslangicTarihi;
```

Description

This is dtpBaslangicTarihi, a member of class FrmAnaSayfa.

1.1.3.1.2.24 FrmAnaSayfa.dtpBitisTarihi Field

C#

```
private System.Windows.Forms.DateTimePicker dtpBitisTarihi;
```

Description

This is dtpBitisTarihi, a member of class FrmAnaSayfa.

1.1.3.1.2.25 FrmAnaSayfa.label1 Field

C#

```
private System.Windows.Forms.Label label1;
```

Description

This is label1, a member of class FrmAnaSayfa.

1.1.3.1.2.26 FrmAnaSayfa.label10 Field

C#

```
private System.Windows.Forms.Label label10;
```

Description

This is label10, a member of class FrmAnaSayfa.

1.1.3.1.2.27 FrmAnaSayfa.label11 Field

C#

```
private System.Windows.Forms.Label label11;
```

Description

This is label11, a member of class FrmAnaSayfa.

1.1.3.1.2.28 FrmAnaSayfa.label12 Field

C#

```
private System.Windows.Forms.Label label12;
```

Description

This is label12, a member of class FrmAnaSayfa.

1.1.3.1.2.29 FrmAnaSayfa.label13 Field

C#

```
private System.Windows.Forms.Label label13;
```

Description

This is label13, a member of class FrmAnaSayfa.

1.1.3.1.2.30 FrmAnaSayfa.label14 Field

C#

```
private System.Windows.Forms.Label label14;
```

Description

This is label14, a member of class FrmAnaSayfa.

1.1.3.1.2.31 FrmAnaSayfa.label15 Field

C#

```
private System.Windows.Forms.Label label15;
```

Description

This is label15, a member of class FrmAnaSayfa.

1.1.3.1.2.32 FrmAnaSayfa.label16 Field

C#

```
private System.Windows.Forms.Label label16;
```

Description

This is label16, a member of class FrmAnaSayfa.

1.1.3.1.2.33 FrmAnaSayfa.label17 Field

C#

```
private System.Windows.Forms.Label label17;
```

Description

This is label17, a member of class FrmAnaSayfa.

1.1.3.1.2.34 FrmAnaSayfa.label2 Field**C#**

```
private System.Windows.Forms.Label label2;
```

Description

This is label2, a member of class FrmAnaSayfa.

1.1.3.1.2.35 FrmAnaSayfa.label3 Field**C#**

```
private System.Windows.Forms.Label label3;
```

Description

This is label3, a member of class FrmAnaSayfa.

1.1.3.1.2.36 FrmAnaSayfa.label4 Field**C#**

```
private System.Windows.Forms.Label label4;
```

Description

This is label4, a member of class FrmAnaSayfa.

1.1.3.1.2.37 FrmAnaSayfa.label5 Field**C#**

```
private System.Windows.Forms.Label label5;
```

Description

This is label5, a member of class FrmAnaSayfa.

1.1.3.1.2.38 FrmAnaSayfa.label6 Field**C#**

```
private System.Windows.Forms.Label label6;
```

Description

This is label6, a member of class FrmAnaSayfa.

1.1.3.1.2.39 FrmAnaSayfa.label7 Field**C#**

```
private System.Windows.Forms.Label label7;
```

Description

This is label7, a member of class FrmAnaSayfa.

1.1.3.1.2.40 FrmAnaSayfa.label8 Field

C#

```
private System.Windows.Forms.Label label8;
```

Description

This is label8, a member of class FrmAnaSayfa.

1.1.3.1.2.41 FrmAnaSayfa.label9 Field

C#

```
private System.Windows.Forms.Label label9;
```

Description

This is label9, a member of class FrmAnaSayfa.

1.1.3.1.2.42 FrmAnaSayfa.lbKisiSonuc Field

C#

```
private System.Windows.Forms.ListBox lbKisiSonuc;
```

Description

This is lbKisiSonuc, a member of class FrmAnaSayfa.

1.1.3.1.2.43 FrmAnaSayfa.lbMetinSonuc Field

C#

```
private System.Windows.Forms.ListBox lbMetinSonuc;
```

Description

This is lbMetinSonuc, a member of class FrmAnaSayfa.

1.1.3.1.2.44 FrmAnaSayfa.lbSayiSonuc Field

C#

```
private System.Windows.Forms.ListBox lbSayiSonuc;
```

Description

This is lbSayiSonuc, a member of class FrmAnaSayfa.

1.1.3.1.2.45 FrmAnaSayfa.lbSifreSonuc Field

C#

```
private System.Windows.Forms.ListBox lbSifreSonuc;
```

Description

This is lbSifreSonuc, a member of class FrmAnaSayfa.

1.1.3.1.2.46 FrmAnaSayfa.lbSonuc Field

C#

```
private System.Windows.Forms.ListBox lbSonuc;
```

Description

This is lbSonuc, a member of class FrmAnaSayfa.

1.1.3.1.2.47 FrmAnaSayfa.pnlKisilslemleri Field**C#**

```
private System.Windows.Forms.Panel pnlKisiIslemleri;
```

Description

This is pnlKisilslemleri, a member of class FrmAnaSayfa.

1.1.3.1.2.48 FrmAnaSayfa.pnlMetinIslemleri Field**C#**

```
private System.Windows.Forms.Panel pnlMetinIslemleri;
```

Description

This is pnlMetinIslemleri, a member of class FrmAnaSayfa.

1.1.3.1.2.49 FrmAnaSayfa.pnlSayiIslemleri Field**C#**

```
private System.Windows.Forms.Panel pnlSayiIslemleri;
```

Description

This is pnlSayiIslemleri, a member of class FrmAnaSayfa.

1.1.3.1.2.50 FrmAnaSayfa.pnlSifreIslemleri Field**C#**

```
private System.Windows.Forms.Panel pnlSifreIslemleri;
```

Description

This is pnlSifreIslemleri, a member of class FrmAnaSayfa.

1.1.3.1.2.51 FrmAnaSayfa.pnlTarihIslemleri Field**C#**

```
private System.Windows.Forms.Panel pnlTarihIslemleri;
```

Description

This is pnlTarihIslemleri, a member of class FrmAnaSayfa.

1.1.3.1.2.52 FrmAnaSayfa.txtKisiMetni Field**C#**

```
private System.Windows.Forms.TextBox txtKisiMetni;
```

Description

This is txtKisiMetni, a member of class FrmAnaSayfa.

1.1.3.1.2.53 FrmAnaSayfa.txtMetin Field

C#

```
private System.Windows.Forms.TextBox txtMetin;
```

Description

This is txtMetin, a member of class FrmAnaSayfa.

1.1.3.1.2.54 FrmAnaSayfa.txtSayi Field

C#

```
private System.Windows.Forms.TextBox txtSayi;
```

Description

This is txtSayi, a member of class FrmAnaSayfa.

1.1.3.1.2.55 FrmAnaSayfa.txtSifrelenecekMetin Field

C#

```
private System.Windows.Forms.TextBox txtSifrelenecekMetin;
```

Description

This is txtSifrelenecekMetin, a member of class FrmAnaSayfa.

1.1.3.1.3 FrmAnaSayfa Methods

1.1.3.1.3.1 FrmAnaSayfa.cmbIslemTuru_SelectedIndexChanged Method

Islem Türü Combobox'ında seçilen degere göre Ekrandaki panellerden ilgili olan haricinde hepsinin erisilemez hale getirilmesi Eger bir sey seçilmemisse, tamamının erisilemez hale getirilmesi için Gerekli işlemlerin gerçekleştirildiği metottur.

C#

```
private void cmbIslemTuru_SelectedIndexChanged(object sender, System.EventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
System.EventArgs e	Event Arguments

Body Source

```
1: private void cmbIslemTuru_SelectedIndexChanged(object sender, System.EventArgs e)
2:     {
3:         #region Combobox'tan Seçilen Degere Göre Ilgili Paneli Aktif Hale Getirme
4:         switch (cmbIslemTuru.SelectedIndex)
5:         {
6:             // Metin Islemleri
7:             case 0:
8:             {
9:                 pnlMetinIslemleri.Enabled = true;
10:                 pnlTarihIslemleri.Enabled = false;
11:                 pnlSifreIslemleri.Enabled = false;
12:                 pnlSayiIslemleri.Enabled = false;
13:                 pnlKisiIslemleri.Enabled = false;
14:                 break;
15:             }
16:             // Tarih Islemleri
```



```

17:         case 1:
18:             {
19:                 pnlMetinIslemleri.Enabled = false;
20:                 pnlTarihIslemleri.Enabled = true;
21:                 pnlSifreIslemleri.Enabled = false;
22:                 pnlSayiIslemleri.Enabled = false;
23:                 pnlKisiIslemleri.Enabled = false;
24:                 break;
25:             }
26:         // Sayi Islemleri
27:         case 2:
28:             {
29:                 pnlMetinIslemleri.Enabled = false;
30:                 pnlTarihIslemleri.Enabled = false;
31:                 pnlSifreIslemleri.Enabled = false;
32:                 pnlSayiIslemleri.Enabled = true;
33:                 pnlKisiIslemleri.Enabled = false;
34:                 break;
35:             }
36:         // Sifre Islemleri
37:         case 3:
38:             {
39:                 pnlMetinIslemleri.Enabled = false;
40:                 pnlTarihIslemleri.Enabled = false;
41:                 pnlSifreIslemleri.Enabled = true;
42:                 pnlSayiIslemleri.Enabled = false;
43:                 pnlKisiIslemleri.Enabled = false;
44:                 break;
45:             }
46:         // Kisi Islemleri
47:         case 4:
48:             {
49:                 pnlMetinIslemleri.Enabled = false;
50:                 pnlTarihIslemleri.Enabled = false;
51:                 pnlSifreIslemleri.Enabled = false;
52:                 pnlSayiIslemleri.Enabled = false;
53:                 pnlKisiIslemleri.Enabled = true;
54:                 break;
55:             }
56:         // Bunlar haricinde herhangi bir sey
57:         default:
58:             {
59:                 pnlMetinIslemleri.Enabled = false;
60:                 pnlTarihIslemleri.Enabled = false;
61:                 pnlSifreIslemleri.Enabled = false;
62:                 pnlSayiIslemleri.Enabled = false;
63:                 pnlKisiIslemleri.Enabled = false;
64:                 break;
65:             }
66:     }
67: #endregion
68: }
69:
70: /// <summary>
71: /// This method is used to measure the length of the item in listbox and make
it multi line
72: /// without using scrollbar and let the user see more efficiently
73: /// </summary>
74: /// <param name="sender">The sender info (For example Main Form)</param>
75: /// <param name="e">Event Arguments</param>
76: private static void listBox_MeasureItem(object sender, MeasureItemEventArgs e)
77: {
78:     if (!(sender is ListBox listBox)) return;
79:     e.ItemHeight = (int) e.Graphics
80:         .MeasureString(listBox.Items[e.Index].ToString(), listBox.Font,
listBox.Width).Height;
81: }
82:
83: /// <summary>

```

```

84:         /// This method is used to measure the length of the item in listbox and make
it multi line
85:         /// without using scrollbar and let the user see more efficiently
86:         /// </summary>
87:         /// <param name="sender">The sender info (For example Main Form)</param>
88:         /// <param name="e">Event Arguments</param>
89:         private static void listBox_DrawItem(object sender, DrawItemEventArgs e)
90:         {
91:             if (!(sender is ListBox listBox)) return;
92:             e.DrawBackground();
93:             e.DrawFocusRectangle();
94:             e.Graphics.DrawString(listBox.Items[e.Index].ToString(), e.Font, new
SolidBrush(e.ForeColor), e.Bounds);
95:         }
96:
97:         #endregion
98:
99:         #region Tarih Islemleri
100:
101:         /// <summary>
102:         /// Paneldeki Baslangiç Tarihi seçili ve tarih girilirse,
103:         /// o tarihten bugüne kaç yas oldugunun hesaplandigi metottur.
104:         /// Ilgili butona tiklandigi zaman çalisir
105:         /// </summary>
106:         /// <param name="sender">The sender info (For example Main Form)</param>
107:         /// <param name="e">Event Arguments</param>
108:         private void btnYasHesapla_Click(object sender, System.EventArgs e)
109:         {
110:             if (!dtpBaslangicTarihi.Checked)
111:                 MessageBox.Show(Sabitler.BaslangicTarihiGirilmedi);
112:             else
113:             {
114:                 lbSonuc.Items.Clear();
115:                 var sb = new StringBuilder();
116:                 sb.Append("Dogum tarihi seçilen kisi ");
117:                 sb.Append(TarihIslemleri.YasHesapla(dtpBaslangicTarihi.Value));
118:                 sb.Append(" yasinin içindedir");
119:                 lbSonuc.Items.Add(sb.ToString());
120:             }
121:         }
122:
123:         /// <summary>
124:         /// Paneldeki Baslangiç Tarihi seçili ve tarih girilirse,
125:         /// o tarihten bugüne kaç yas oldugunun yıl, ay ve gün
126:         /// olarak metinsel bir şekilde hesaplandigi metottur.
127:         /// Ilgili butona tiklandigi zaman çalisir
128:         /// </summary>
129:         /// <param name="sender">The sender info (For example Main Form)</param>
130:         /// <param name="e">Event Arguments</param>
131:         private void btnYasHesaplaMetinsel_Click(object sender, System.EventArgs e)
132:         {
133:             if (!dtpBaslangicTarihi.Checked)
134:                 MessageBox.Show(Sabitler.BaslangicTarihiGirilmedi);
135:             else
136:             {
137:                 lbSonuc.Items.Clear();
138:                 var sb = new StringBuilder();
139:                 sb.Append(TarihIslemleri.YasHesaplaMetinsel(dtpBaslangicTarihi.Value));
140:                 lbSonuc.Items.Add(sb.ToString());
141:             }
142:         }
143:
144:         /// <summary>
145:         /// Paneldeki Baslangiç Tarihi ve Bitis Tarihi alanlari seçili ve tarih
girilirse,
146:         /// Söz konusu tarihler arasında kaç yıl, kaç ay ve gün oldugunun bilgisinin
hazirlandigi metottur.
147:         /// Ilgili butona tiklandigi zaman çalisir
148:         /// </summary>

```

```

149:         /// <param name="sender">The sender info (For example Main Form)</param>
150:         /// <param name="e">Event Arguments</param>
151:         private void btnTarihAraligi_Click(object sender, System.EventArgs e)
152:         {
153:             if (!dtpBaslangicTarihi.Checked || !dtpBitisTarihi.Checked)
154:                 MessageBox.Show(Sabitler.BaslangicVeyaBitisTarihiGirilmedi);
155:             else if (dtpBaslangicTarihi.Value.Date > dtpBitisTarihi.Value.Date)
156:                 MessageBox.Show(Sabitler.BaslangicTarihiBuyuk);
157:             else
158:             {
159:                 lbSonuc.Items.Clear();
160:                 var sb = new StringBuilder();
161:                 sb.Append("İki tarih arası: ");
162:                 sb.Append(TarihIslemleri.TarihAraligiHesapla(dtpBaslangicTarihi.Value.Date,
163: dtpBitisTarihi.Value.Date));
164:                 lbSonuc.Items.Add(sb.ToString());
165:             }
166:         }
167:         /// <summary>
168:         /// Paneldeki Baslangıç Tarihi ve Bitis Tarihi alanları seçili ve tarih
169:         /// girilmiŖse,
170:         /// Söz konusu tarihler arasında kaç ay olduĐunun bilgisinin hazırlandığı
171:         /// metottur.
172:         /// İlgili butona tıklandığı zaman çalışır
173:         /// </summary>
174:         /// <param name="sender">The sender info (For example Main Form)</param>
175:         /// <param name="e">Event Arguments</param>
176:         private void btnAyFarki_Click(object sender, System.EventArgs e)
177:         {
178:             if (!dtpBaslangicTarihi.Checked || !dtpBitisTarihi.Checked)
179:                 MessageBox.Show(Sabitler.BaslangicVeyaBitisTarihiGirilmedi);
180:             else if (dtpBaslangicTarihi.Value.Date > dtpBitisTarihi.Value.Date)
181:                 MessageBox.Show(Sabitler.BaslangicTarihiBuyuk);
182:             else
183:             {
184:                 lbSonuc.Items.Clear();
185:                 var sb = new StringBuilder();
186:                 sb.Append("Ay Farki: ");
187:                 sb.Append(TarihIslemleri.AyFarki(dtpBaslangicTarihi.Value.Date,
188: dtpBitisTarihi.Value.Date));
189:                 lbSonuc.Items.Add(sb.ToString());
190:             }
191:         }
192:         #endregion
193:         #region Sifre Islemleri
194:         /// <summary>
195:         /// Paneldeki metin kutusu dolu ise
196:         /// Girilen metnin MD5 algoritması ile şifrelenmiş halini
197:         /// Listbox üzerine yazdıran metottur.
198:         /// </summary>
199:         /// <param name="sender">The sender info (For example Main Form)</param>
200:         /// <param name="e">Event Arguments</param>
201:         private void btnMd5Hash_Click(object sender, System.EventArgs e)
202:         {
203:             if (string.IsNullOrEmpty(txtSifrelenecekMetin.Text.Trim()))
204:                 MessageBox.Show(Sabitler.SifrelenecekMetinGirilmedi);
205:             else
206:             {
207:                 lbSifreSonuc.Items.Clear();
208:                 var sb = new StringBuilder();
209:                 sb.Append("Girilen Metnin MD5 Karsiligi: ");
210:                 sb.Append(SifrelemeIslemleri.HesaplaMD5(txtSifrelenecekMetin.Text.Trim()));
211:                 lbSifreSonuc.Items.Add(sb.ToString());
212:             }
213:         }

```

```

212:
213:     /// <summary>
214:     /// Paneldeki metin kutusu dolu ise
215:     /// Girilen metnin SHA 256 algoritmasi ile sifrelenmis halini
216:     /// Listbox üzerine yazdiran metottur.
217:     /// </summary>
218:     /// <param name="sender">The sender info (For example Main Form)</param>
219:     /// <param name="e">Event Arguments</param>
220:     private void btnSha256Hash_Click(object sender, System.EventArgs e)
221:     {
222:         if (string.IsNullOrEmpty(txtSifrelenecekMetin.Text.Trim()))
223:             MessageBox.Show(Sabitler.SifrelenecekMetinGirilmedi);
224:         else
225:         {
226:             lbSifreSonuc.Items.Clear();
227:             var sb = new StringBuilder();
228:             sb.Append("Girilen Metnin SHA 256 Karsiligi: ");
229:             sb.Append(SifrelemeIslemleri.HesaplaSHA256(txtSifrelenecekMetin.Text.Trim()));
230:             lbSifreSonuc.Items.Add(sb.ToString());
231:         }
232:     }
233:
234:     /// <summary>
235:     /// Paneldeki metin kutusu dolu ise
236:     /// Girilen metnin SHA 512 algoritmasi ile sifrelenmis halini
237:     /// Listbox üzerine yazdiran metottur.
238:     /// </summary>
239:     /// <param name="sender">The sender info (For example Main Form)</param>
240:     /// <param name="e">Event Arguments</param>
241:     private void btnSha512Hash_Click(object sender, System.EventArgs e)
242:     {
243:         if (string.IsNullOrEmpty(txtSifrelenecekMetin.Text.Trim()))
244:             MessageBox.Show(Sabitler.SifrelenecekMetinGirilmedi);
245:         else
246:         {
247:             lbSifreSonuc.Items.Clear();
248:             var sb = new StringBuilder();
249:             sb.Append("Girilen Metnin SHA 512 Karsiligi: ");
250:             sb.Append(SifrelemeIslemleri.HesaplaSHA512(txtSifrelenecekMetin.Text.Trim()));
251:             lbSifreSonuc.Items.Add(sb.ToString());
252:         }
253:     }
254:
255:     /// <summary>
256:     /// Ilgili butona tiklandiginda rastgele sifre üretilmesini saglayan metottur
257:     /// </summary>
258:     /// <param name="sender">The sender info (For example Main Form)</param>
259:     /// <param name="e">Event Arguments</param>
260:     private void btnRastgeleSifreUret_Click(object sender, System.EventArgs e)
261:     {
262:         lbSifreSonuc.Items.Clear();
263:         var sb = new StringBuilder();
264:         sb.Append("Rastgele Üretilen Sifre: ");
265:         sb.Append(SifrelemeIslemleri.RastgeleSifreUret());
266:         lbSifreSonuc.Items.Add(sb.ToString());
267:     }
268:
269:     /// <summary>
270:     /// Paneldeki metin kutusu dolu ise
271:     /// Burada yazilan metnin bir sifre olarak belirli kriterlere uygun olup
    olmadiginin
272:     /// Gösterilmesini saglayan bir metottur
273:     /// </summary>
274:     /// <param name="sender">The sender info (For example Main Form)</param>
275:     /// <param name="e">Event Arguments</param>
276:     private void btnSifreUygunMu_Click(object sender, System.EventArgs e)
277:     {

```

```

278:         if (string.IsNullOrEmpty(txtSifrelenecekMetin.Text.Trim()))
279:             MessageBox.Show(Sabitler.SifreMetniGirilmedi);
280:         else
281:         {
282:             lbSifreSonuc.Items.Clear();
283:             var sb = new StringBuilder();
284:             sb.Append("Girilen Sifrenin Uygunluk Durumu: ");
285:
sb.Append(SifrelemeIslemleri.SifreUygunMu(txtSifrelenecekMetin.Text.Trim()));
286:             lbSifreSonuc.Items.Add(sb.ToString());
287:         }
288:     }
289: #endregion
290:
291: #region Sayi Islemleri
292: /// <summary>
293: /// Paneldeki metin kutusuna girilen metnin sayisal bir deger olup olmadigini
294: /// Kontrol eden ve sonucu gösteren metottur.
295: /// </summary>
296: /// <param name="sender">The sender info (For example Main Form)</param>
297: /// <param name="e">Event Arguments</param>
298: private void btnSayisalMi_Click(object sender, System.EventArgs e)
299: {
300:     if (string.IsNullOrEmpty(txtSayi.Text.Trim()))
301:         MessageBox.Show(Sabitler.MetinGirilmedi);
302:     else
303:     {
304:         lbSayiSonuc.Items.Clear();
305:         var sb = new StringBuilder();
306:         sb.Append("Girilen Metin Sayi Mi?: ");
307:         sb.Append(SayiIslemleri.SayisalMi(txtSayi.Text.Trim()) ? "Evet" :
"Hayir");
308:         lbSayiSonuc.Items.Add(sb.ToString());
309:     }
310: }
311:
312: /// <summary>
313: /// Paneldeki metin kutusuna girilen para birimi cinsinden rakamin
314: /// Yaziya çevrilmesini saglayan ve sonucu listbox üzerinde gösteren bir
metottur.
315: /// </summary>
316: /// <param name="sender">The sender info (For example Main Form)</param>
317: /// <param name="e">Event Arguments</param>
318: private void btnMetneDonustur_Click(object sender, System.EventArgs e)
319: {
320:     if (string.IsNullOrEmpty(txtSayi.Text.Trim()))
321:         MessageBox.Show(Sabitler.MetinGirilmedi);
322:     else if (!SayiIslemleri.SayisalMi(txtSayi.Text.Trim().Replace(".", "",
".").Replace(".", "")))
323:         MessageBox.Show(Sabitler.MetinSayisalDegil);
324:     else
325:     {
326:         var metinSadeceSayiKismi = txtSayi.Text.Trim();
327:         var sayi = SayiIslemleri.SayiHalineCevir(metinSadeceSayiKismi);
328:         lbSayiSonuc.Items.Clear();
329:         var sb = new StringBuilder();
330:         sb.Append("Girilen Sayinin Metin Hali (Parasal): ");
331:         sb.Append(SayiIslemleri.SayiyiYaziyaCevir(sayi));
332:         lbSayiSonuc.Items.Add(sb.ToString());
333:     }
334: }
335:
336: /// <summary>
337: /// Rastgele olacak sekilde 6 haneli kod olusturmayi saglayan bir metottur.
338: /// </summary>
339: /// <param name="sender">The sender info (For example Main Form)</param>
340: /// <param name="e">Event Arguments</param>
341: private void btnOnayKoduOlustur_Click(object sender, System.EventArgs e)
342: {

```

```

343:         lbSayiSonuc.Items.Clear();
344:         var sb = new StringBuilder();
345:         sb.Append("Olusturulan 6 haneli onay kodu: ");
346:         sb.Append(SayiIslemleri.AltiHaneliOnayKoduOlustur());
347:         lbSayiSonuc.Items.Add(sb.ToString());
348:     }
349: #endregion
350:
351: #region Kisi Islemleri
352: /// <summary>
353: /// Paneldeki metin kutusuna girilen TC Kimlik numarasinin
354: /// Standart TC Kimlik No algoritmasina uygun olup olmadigini kontrol eden bir
metottur.
355: /// </summary>
356: /// <param name="sender">The sender info (For example Main Form)</param>
357: /// <param name="e">Event Arguments</param>
358: private void btnTcKimlikDogrula_Click(object sender, System.EventArgs e)
359: {
360:     if (string.IsNullOrEmpty(txtKisiMetni.Text.Trim()))
361:         MessageBox.Show(Sabitler.MetinGirilmedi);
362:     else if (!SayiIslemleri.SayisalMi(txtKisiMetni.Text.Trim()))
363:         MessageBox.Show(Sabitler.MetinSayisalDegil);
364:     else if (txtKisiMetni.Text.Trim().Length != 11)
365:         MessageBox.Show(Sabitler.MetinTcKimlikNoDegil);
366:     else
367:     {
368:         lbKisiSonuc.Items.Clear();
369:         var sb = new StringBuilder();
370:         sb.Append("TC Kimlik No Dogru Mu?: ");
371:         sb.Append(KisiIslemleri.DogrulaTcKimlikNo(txtKisiMetni.Text.Trim()) ?
"Evet" : "Hayir");
372:         lbKisiSonuc.Items.Add(sb.ToString());
373:     }
374: }
375:
376: /// <summary>
377: /// Paneldeki metin kutusuna girilen IBAN Numarasinin
378: /// Standart IBAN algoritmasina uygun olup olmadigini kontrol eden bir
metottur.
379: /// </summary>
380: /// <param name="sender">The sender info (For example Main Form)</param>
381: /// <param name="e">Event Arguments</param>
382: private void btnIbanDogrula_Click(object sender, System.EventArgs e)
383: {
384:     if (string.IsNullOrEmpty(txtKisiMetni.Text.Trim()))
385:         MessageBox.Show(Sabitler.MetinGirilmedi);
386:     else if (txtKisiMetni.Text.Trim().Length != 26)
387:         MessageBox.Show(Sabitler.MetinIbanNoDegil +
txtKisiMetni.Text.Trim().Length);
388:     else
389:     {
390:         lbKisiSonuc.Items.Clear();
391:         var sb = new StringBuilder();
392:         sb.Append("IBAN Dogru Mu?: ");
393:         sb.Append(KisiIslemleri.DogrulaIBAN(txtKisiMetni.Text.Trim()) ? "Evet"
: "Hayir");
394:         lbKisiSonuc.Items.Add(sb.ToString());
395:     }
396: }
397:
398: /// <summary>
399: /// Paneldeki metin kutusuna girilen metnin
400: /// Geçerli bir e-posta adresi olup olmadigini kontrol eden bir metottur.
401: /// </summary>
402: /// <param name="sender">The sender info (For example Main Form)</param>
403: /// <param name="e">Event Arguments</param>
404: private void btnEPostaDogrula_Click(object sender, System.EventArgs e)
405: {
406:     if (string.IsNullOrEmpty(txtKisiMetni.Text.Trim()))

```

```

407:         MessageBox.Show(Sabitler.MetinGirilmedi);
408:     else
409:     {
410:         lbKisiSonuc.Items.Clear();
411:         var sb = new StringBuilder();
412:         sb.Append("E-Posta Dogru Mu?: ");
413:         sb.Append(KisiIslemleri.DogrulaEPosta(txtKisiMetni.Text.Trim()) ?
"Evet" : "Hayir");
414:         lbKisiSonuc.Items.Add(sb.ToString());
415:     }
416: }
417: #endregion
418:
419: #region Metin Islemleri
420: /// <summary>
421: /// Paneldeki metin kutusuna girilen metnin
422: /// Kelimelerinin ilk harflerini büyük yapmaya yarayan bir metottur.
423: /// </summary>
424: /// <param name="sender">The sender info (For example Main Form)</param>
425: /// <param name="e">Event Arguments</param>
426: private void btnIlkHarfleriBuyukYap_Click(object sender, System.EventArgs e)
427: {
428:     if (string.IsNullOrEmpty(txtMetin.Text.Trim()))
429:         MessageBox.Show(Sabitler.MetinGirilmedi);
430:     else
431:     {
432:         lbMetinSonuc.Items.Clear();
433:         var sb = new StringBuilder();
434:         sb.Append("Metnin Düzenlenmis Hali: ");
435:         sb.Append(txtMetin.Text.Trim().MetinIlkKarakterleriBuyukYap());
436:         lbMetinSonuc.Items.Add(sb.ToString());
437:     }
438: }
439:
440: /// <summary>
441: /// Paneldeki metin kutusuna girilen metnin
442: /// Sadece ilk harfini büyük yapmaya yarayan bir metottur.
443: /// </summary>
444: /// <param name="sender">The sender info (For example Main Form)</param>
445: /// <param name="e">Event Arguments</param>
446: private void btnIlkHarfiBuyukYap_Click(object sender, System.EventArgs e)
447: {
448:     if (string.IsNullOrEmpty(txtMetin.Text.Trim()))
449:         MessageBox.Show(Sabitler.MetinGirilmedi);
450:     else
451:     {
452:         lbMetinSonuc.Items.Clear();
453:         var sb = new StringBuilder();
454:         sb.Append("Metnin Düzenlenmis Hali: ");
455:
sb.Append(MetinIslemleri.MetinIlkKarakterBuyukDigerleriKucukYap(txtMetin.Text.Trim()));
456:         lbMetinSonuc.Items.Add(sb.ToString());
457:     }
458: }
459:
460: /// <summary>
461: /// Paneldeki metin kutusuna girilen metnin
462: /// İçerisindeki Türkçe karakterleri İngilizce hallerine çeviren bir metottur.
463: /// </summary>
464: /// <param name="sender">The sender info (For example Main Form)</param>
465: /// <param name="e">Event Arguments</param>
466: private void btnTurkceKarakterDuzelt_Click(object sender, System.EventArgs e)
467: {
468:     if (string.IsNullOrEmpty(txtMetin.Text.Trim()))
469:         MessageBox.Show(Sabitler.MetinGirilmedi);
470:     else
471:     {
472:         lbMetinSonuc.Items.Clear();
473:         var sb = new StringBuilder();

```



```

474:                sb.Append("Metnin Düzenlenmis Hali: ");
475:
476:            sb.Append(MetinIslemleri.TurkceKarakterleriDuzelt(txtMetin.Text.Trim()));
477:            lbMetinSonuc.Items.Add(sb.ToString());
478:        }
479:    }
480:    /// <summary>
481:    /// KVKK durumlarından dolayı TC Kimlik No ve Vergi No gibi alanların
482:    /// Matbu çıktılarda gizlenmesi gibi bir durum söz konusu olduğundan
483:    /// Girilen bu 10 veya 11 karakterlik metinleri şifrelemeye yarayan bir
metottur
484:    /// </summary>
485:    /// <param name="sender">The sender info (For example Main Form)</param>
486:    /// <param name="e">Event Arguments</param>
487:    private void btnMetinSifrele_Click(object sender, System.EventArgs e)
488:    {
489:        if (string.IsNullOrEmpty(txtMetin.Text.Trim()))
490:            MessageBox.Show(Sabitler.MetinGirilmedi);
491:        else if (!SayiIslemleri.SayisalMi(txtMetin.Text.Trim()))
492:            MessageBox.Show(Sabitler.MetinSayisalDegil);
493:        else if (txtMetin.Text.Trim().Length != 11 && txtMetin.Text.Trim().Length
!= 10)
494:            MessageBox.Show(Sabitler.MetinTcKimlikNoVeyaVergiNoDegil);
495:        else
496:        {
497:            lbMetinSonuc.Items.Clear();
498:            var sb = new StringBuilder();
499:            sb.Append("TC Kimlik No veya Vergi No'nun Sifrelenmis Hali: ");
500:            sb.Append(MetinIslemleri.MetinSifrele(txtMetin.Text.Trim()));
501:            lbMetinSonuc.Items.Add(sb.ToString());
502:        }
503:    }
504:
505:    /// <summary>
506:    /// Ekrandan çeşitli karakterler içeren telefon numaraları alındığı zaman
507:    /// Bu telefon numarasını olması gerektiği hale çevirmeye yarayan bir metottur.
508:    /// </summary>
509:    /// <param name="sender">The sender info (For example Main Form)</param>
510:    /// <param name="e">Event Arguments</param>
511:    private void btnTelefonNoDuzenle_Click(object sender, System.EventArgs e)
512:    {
513:        if (string.IsNullOrEmpty(txtMetin.Text.Trim()))
514:            MessageBox.Show(Sabitler.MetinGirilmedi);
515:        else
516:        {
517:            lbMetinSonuc.Items.Clear();
518:            var sb = new StringBuilder();
519:            sb.Append("Telefon Numarasının Düzenlenmis Hali: ");
520:            sb.Append(MetinIslemleri.TelefonNoDuzenle(txtMetin.Text.Trim()));
521:            lbMetinSonuc.Items.Add(sb.ToString());
522:        }
523:    }
524:    #endregion
525: }
526: }

```

1.1.3.1.3.2 FrmAnaSayfa.Dispose Method

Clean up any resources being used.

C#

```
protected override void Dispose(bool disposing);
```


Parameters

Parameters	Description
bool disposing	true if managed resources should be disposed; otherwise, false.

Body Source

```

1: protected override void Dispose(bool disposing)
2: {
3:     if (disposing && (components != null))
4:     {
5:         components.Dispose();
6:     }
7:     base.Dispose(disposing);
8: }

```

1.1.3.1.3.3 FrmAnaSayfa.FrmAnaSayfa_Load Method

Form İlk Yüklendiği zaman ekrandaki bütün panellerin erişilemez hale getirilmesi sağlanıyor Bu metotta, çünkü hangi panelin aktifleşeceğinin Combobox üzerinden seçilmesi lazım

C#

```
private void FrmAnaSayfa_Load(object sender, System.EventArgs e);
```

Parameters

Parameters	Description
object sender	The sender info (For example Main Form)
System.EventArgs e	Event Arguments

Body Source

```

1: private void FrmAnaSayfa_Load(object sender, System.EventArgs e)
2: {
3:     cmbIslemTuru.DropDownStyle = ComboBoxStyle.DropDownList;
4:     #region Sayfa İlk Yüklendiğinde Tüm Panellerin Erisime Kapanması
5:     pnlTarihIslemleri.Enabled = false;
6:     pnlSifreIslemleri.Enabled = false;
7:     pnlSayiIslemleri.Enabled = false;
8:     pnlKisiIslemleri.Enabled = false;
9:     pnlMetinIslemleri.Enabled = false;
10:    #endregion
11:    #region Bütün Listboxların MultiLine Yapılması
12:    lbMetinSonuc.DrawMode = DrawMode.OwnerDrawVariable;
13:    lbMetinSonuc.MeasureItem += listBox_MeasureItem;
14:    lbMetinSonuc.DrawItem += listBox_DrawItem;
15:    lbSayiSonuc.DrawMode = DrawMode.OwnerDrawVariable;
16:    lbSayiSonuc.MeasureItem += listBox_MeasureItem;
17:    lbSayiSonuc.DrawItem += listBox_DrawItem;
18:    lbKisiSonuc.DrawMode = DrawMode.OwnerDrawVariable;
19:    lbKisiSonuc.MeasureItem += listBox_MeasureItem;
20:    lbKisiSonuc.DrawItem += listBox_DrawItem;
21:    lbSifreSonuc.DrawMode = DrawMode.OwnerDrawVariable;
22:    lbSifreSonuc.MeasureItem += listBox_MeasureItem;
23:    lbSifreSonuc.DrawItem += listBox_DrawItem;
24:    lbSonuc.DrawMode = DrawMode.OwnerDrawVariable;
25:    lbSonuc.MeasureItem += listBox_MeasureItem;
26:    lbSonuc.DrawItem += listBox_DrawItem;
27:    #endregion
28: }

```

1.1.3.1.3.4 FrmAnaSayfa.InitializeComponent Method

Required method for Designer support - do not modify the contents of this method with the code editor.

C#**private void InitializeComponent();****Body Source**

```

1: private void InitializeComponent()
2: {
3:     this.cmbIslemTuru = new System.Windows.Forms.ComboBox();
4:     this.label1 = new System.Windows.Forms.Label();
5:     this.pnlTarihIslemleri = new System.Windows.Forms.Panel();
6:     this.btnAyFarki = new System.Windows.Forms.Button();
7:     this.label8 = new System.Windows.Forms.Label();
8:     this.btnTarihAraligi = new System.Windows.Forms.Button();
9:     this.btnYasHesaplaMetinsel = new System.Windows.Forms.Button();
10:    this.btnYasHesapla = new System.Windows.Forms.Button();
11:    this.label4 = new System.Windows.Forms.Label();
12:    this.lbSonuc = new System.Windows.Forms.ListBox();
13:    this.dtpBitisTarihi = new System.Windows.Forms.DateTimePicker();
14:    this.dtpBaslangicTarihi = new System.Windows.Forms.DateTimePicker();
15:    this.label3 = new System.Windows.Forms.Label();
16:    this.label2 = new System.Windows.Forms.Label();
17:    this.pnlSifreIslemleri = new System.Windows.Forms.Panel();
18:    this.label7 = new System.Windows.Forms.Label();
19:    this.btnSifreUygunMu = new System.Windows.Forms.Button();
20:    this.btnRastgeleSifreUret = new System.Windows.Forms.Button();
21:    this.btnSha512Hash = new System.Windows.Forms.Button();
22:    this.btnSha256Hash = new System.Windows.Forms.Button();
23:    this.label6 = new System.Windows.Forms.Label();
24:    this.lbSifreSonuc = new System.Windows.Forms.ListBox();
25:    this.btnMd5Hash = new System.Windows.Forms.Button();
26:    this.txtSifreleneccekMetin = new System.Windows.Forms.TextBox();
27:    this.label5 = new System.Windows.Forms.Label();
28:    this.pnlSayiIslemleri = new System.Windows.Forms.Panel();
29:    this.label9 = new System.Windows.Forms.Label();
30:    this.btnOnayKoduOlustur = new System.Windows.Forms.Button();
31:    this.btnMetneDonustur = new System.Windows.Forms.Button();
32:    this.label10 = new System.Windows.Forms.Label();
33:    this.lbSayiSonuc = new System.Windows.Forms.ListBox();
34:    this.btnSayisalMi = new System.Windows.Forms.Button();
35:    this.txtSayi = new System.Windows.Forms.TextBox();
36:    this.label11 = new System.Windows.Forms.Label();
37:    this.pnlKisiIslemleri = new System.Windows.Forms.Panel();
38:    this.label12 = new System.Windows.Forms.Label();
39:    this.btnEPostaDogrula = new System.Windows.Forms.Button();
40:    this.btnIbanDogrula = new System.Windows.Forms.Button();
41:    this.label13 = new System.Windows.Forms.Label();
42:    this.lbKisiSonuc = new System.Windows.Forms.ListBox();
43:    this.btnTcKimlikDogrula = new System.Windows.Forms.Button();
44:    this.txtKisiMetni = new System.Windows.Forms.TextBox();
45:    this.label14 = new System.Windows.Forms.Label();
46:    this.pnlMetinIslemleri = new System.Windows.Forms.Panel();
47:    this.btnTelefonNoDuzenle = new System.Windows.Forms.Button();
48:    this.btnMetinSifrele = new System.Windows.Forms.Button();
49:    this.label15 = new System.Windows.Forms.Label();
50:    this.btnTürkçeKarakterDüzeltil = new System.Windows.Forms.Button();
51:    this.btnIlkHarfiBuyukYap = new System.Windows.Forms.Button();
52:    this.label16 = new System.Windows.Forms.Label();
53:    this.lbMetinSonuc = new System.Windows.Forms.ListBox();
54:    this.btnIlkHarfleriBuyukYap = new System.Windows.Forms.Button();
55:    this.txtMetin = new System.Windows.Forms.TextBox();
56:    this.label17 = new System.Windows.Forms.Label();
57:    this.pnlTarihIslemleri.SuspendLayout();
58:    this.pnlSifreIslemleri.SuspendLayout();
59:    this.pnlSayiIslemleri.SuspendLayout();
60:    this.pnlKisiIslemleri.SuspendLayout();
61:    this.pnlMetinIslemleri.SuspendLayout();
62:    this.SuspendLayout();
63:    //

```

```

64:         // cmbIslemTuru
65:         //
66:         this.cmbIslemTuru.FormattingEnabled = true;
67:         this.cmbIslemTuru.Items.AddRange(new object[] { "Metin Islemleri", "Tarih
Islemleri", "Sayi Islemleri", "Sifre Islemleri", "Kisi Islemleri" });
68:         this.cmbIslemTuru.Location = new System.Drawing.Point(132, 13);
69:         this.cmbIslemTuru.Name = "cmbIslemTuru";
70:         this.cmbIslemTuru.Size = new System.Drawing.Size(200, 21);
71:         this.cmbIslemTuru.TabIndex = 0;
72:         this.cmbIslemTuru.SelectedIndexChanged += new
System.EventHandler(this.cmbIslemTuru_SelectedIndexChanged);
73:         //
74:         // label1
75:         //
76:         this.label1.AutoSize = true;
77:         this.label1.Location = new System.Drawing.Point(12, 16);
78:         this.label1.Name = "label1";
79:         this.label1.Size = new System.Drawing.Size(93, 13);
80:         this.label1.TabIndex = 1;
81:         this.label1.Text = "Islem Türü Seçiniz";
82:         //
83:         // pnlTarihIslemleri
84:         //
85:         this.pnlTarihIslemleri.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
86:         this.pnlTarihIslemleri.Controls.Add(this.btnAyFarki);
87:         this.pnlTarihIslemleri.Controls.Add(this.label8);
88:         this.pnlTarihIslemleri.Controls.Add(this.btnTarihAraligi);
89:         this.pnlTarihIslemleri.Controls.Add(this.btnYasHesaplaMetinsel);
90:         this.pnlTarihIslemleri.Controls.Add(this.btnYasHesapla);
91:         this.pnlTarihIslemleri.Controls.Add(this.label4);
92:         this.pnlTarihIslemleri.Controls.Add(this.lbSonuc);
93:         this.pnlTarihIslemleri.Controls.Add(this.dtpBitisTarihi);
94:         this.pnlTarihIslemleri.Controls.Add(this.dtpBaslangicTarihi);
95:         this.pnlTarihIslemleri.Controls.Add(this.label3);
96:         this.pnlTarihIslemleri.Controls.Add(this.label2);
97:         this.pnlTarihIslemleri.Location = new System.Drawing.Point(15, 56);
98:         this.pnlTarihIslemleri.Name = "pnlTarihIslemleri";
99:         this.pnlTarihIslemleri.Size = new System.Drawing.Size(374, 181);
100:        this.pnlTarihIslemleri.TabIndex = 2;
101:        //
102:        // btnAyFarki
103:        //
104:        this.btnAyFarki.Location = new System.Drawing.Point(286, 76);
105:        this.btnAyFarki.Name = "btnAyFarki";
106:        this.btnAyFarki.Size = new System.Drawing.Size(79, 23);
107:        this.btnAyFarki.TabIndex = 12;
108:        this.btnAyFarki.Text = "Ay Farki";
109:        this.btnAyFarki.UseVisualStyleBackColor = true;
110:        this.btnAyFarki.Click += new System.EventHandler(this.btnAyFarki_Click);
111:        //
112:        // label8
113:        //
114:        this.label8.AutoSize = true;
115:        this.label8.Dock = System.Windows.Forms.DockStyle.Top;
116:        this.label8.Location = new System.Drawing.Point(0, 0);
117:        this.label8.Name = "label8";
118:        this.label8.Size = new System.Drawing.Size(71, 13);
119:        this.label8.TabIndex = 11;
120:        this.label8.Text = "Tarih Islemleri";
121:        //
122:        // btnTarihAraligi
123:        //
124:        this.btnTarihAraligi.Location = new System.Drawing.Point(204, 76);
125:        this.btnTarihAraligi.Name = "btnTarihAraligi";
126:        this.btnTarihAraligi.Size = new System.Drawing.Size(76, 23);
127:        this.btnTarihAraligi.TabIndex = 10;
128:        this.btnTarihAraligi.Text = "Tarih Araligi";
129:        this.btnTarihAraligi.UseVisualStyleBackColor = true;
130:        this.btnTarihAraligi.Click += new System.EventHandler(this.btnTarihAraligi_Click);

```

```

131:    //
132:    // btnYasHesaplaMetinsel
133:    //
134:    this.btnYasHesaplaMetinsel.Location = new System.Drawing.Point(84, 76);
135:    this.btnYasHesaplaMetinsel.Name = "btnYasHesaplaMetinsel";
136:    this.btnYasHesaplaMetinsel.Size = new System.Drawing.Size(113, 23);
137:    this.btnYasHesaplaMetinsel.TabIndex = 9;
138:    this.btnYasHesaplaMetinsel.Text = "Yas Hesapla (Metin)";
139:    this.btnYasHesaplaMetinsel.UseVisualStyleBackColor = true;
140:    this.btnYasHesaplaMetinsel.Click += new
System.EventHandler(this.btnYasHesaplaMetinsel_Click);
141:    //
142:    // btnYasHesapla
143:    //
144:    this.btnYasHesapla.Location = new System.Drawing.Point(3, 76);
145:    this.btnYasHesapla.Name = "btnYasHesapla";
146:    this.btnYasHesapla.Size = new System.Drawing.Size(75, 23);
147:    this.btnYasHesapla.TabIndex = 8;
148:    this.btnYasHesapla.Text = "Yas Hesapla";
149:    this.btnYasHesapla.UseVisualStyleBackColor = true;
150:    this.btnYasHesapla.Click += new System.EventHandler(this.btnYasHesapla_Click);
151:    //
152:    // label4
153:    //
154:    this.label4.AutoSize = true;
155:    this.label4.Location = new System.Drawing.Point(18, 109);
156:    this.label4.Name = "label4";
157:    this.label4.Size = new System.Drawing.Size(38, 13);
158:    this.label4.TabIndex = 7;
159:    this.label4.Text = "Sonuç";
160:    //
161:    // lbSonuc
162:    //
163:    this.lbSonuc.FormattingEnabled = true;
164:    this.lbSonuc.HorizontalScrollbar = true;
165:    this.lbSonuc.Location = new System.Drawing.Point(62, 105);
166:    this.lbSonuc.Name = "lbSonuc";
167:    this.lbSonuc.Size = new System.Drawing.Size(256, 69);
168:    this.lbSonuc.TabIndex = 6;
169:    //
170:    // dtpBitisTarihi
171:    //
172:    this.dtpBitisTarihi.Format = System.Windows.Forms.DateTimePickerFormat.Short;
173:    this.dtpBitisTarihi.Location = new System.Drawing.Point(117, 43);
174:    this.dtpBitisTarihi.Name = "dtpBitisTarihi";
175:    this.dtpBitisTarihi.ShowCheckBox = true;
176:    this.dtpBitisTarihi.Size = new System.Drawing.Size(200, 20);
177:    this.dtpBitisTarihi.TabIndex = 5;
178:    //
179:    // dtpBaslangicTarihi
180:    //
181:    this.dtpBaslangicTarihi.Format = System.Windows.Forms.DateTimePickerFormat.Short;
182:    this.dtpBaslangicTarihi.Location = new System.Drawing.Point(117, 17);
183:    this.dtpBaslangicTarihi.Name = "dtpBaslangicTarihi";
184:    this.dtpBaslangicTarihi.ShowCheckBox = true;
185:    this.dtpBaslangicTarihi.Size = new System.Drawing.Size(200, 20);
186:    this.dtpBaslangicTarihi.TabIndex = 4;
187:    //
188:    // label3
189:    //
190:    this.label3.AutoSize = true;
191:    this.label3.Location = new System.Drawing.Point(44, 47);
192:    this.label3.Name = "label3";
193:    this.label3.Size = new System.Drawing.Size(55, 13);
194:    this.label3.TabIndex = 3;
195:    this.label3.Text = "Bitis Tarihi";
196:    //
197:    // label2
198:    //

```

```
199:         this.label2.AutoSize = true;
200:         this.label2.Location = new System.Drawing.Point(17, 24);
201:         this.label2.Name = "label2";
202:         this.label2.Size = new System.Drawing.Size(82, 13);
203:         this.label2.TabIndex = 2;
204:         this.label2.Text = "Baslangiç Tarihi";
205:         //
206:         // pnlSifreIslemleri
207:         //
208:         this.pnlSifreIslemleri.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
209:         this.pnlSifreIslemleri.Controls.Add(this.label7);
210:         this.pnlSifreIslemleri.Controls.Add(this.btnSifreUygunMu);
211:         this.pnlSifreIslemleri.Controls.Add(this.btnRastgeleSifreUret);
212:         this.pnlSifreIslemleri.Controls.Add(this.btnSha512Hash);
213:         this.pnlSifreIslemleri.Controls.Add(this.btnSha256Hash);
214:         this.pnlSifreIslemleri.Controls.Add(this.label6);
215:         this.pnlSifreIslemleri.Controls.Add(this.lbSifreSonuc);
216:         this.pnlSifreIslemleri.Controls.Add(this.btnMd5Hash);
217:         this.pnlSifreIslemleri.Controls.Add(this.txtSifrelenecekMetin);
218:         this.pnlSifreIslemleri.Controls.Add(this.label5);
219:         this.pnlSifreIslemleri.Location = new System.Drawing.Point(411, 56);
220:         this.pnlSifreIslemleri.Name = "pnlSifreIslemleri";
221:         this.pnlSifreIslemleri.Size = new System.Drawing.Size(377, 181);
222:         this.pnlSifreIslemleri.TabIndex = 3;
223:         //
224:         // label7
225:         //
226:         this.label7.AutoSize = true;
227:         this.label7.Dock = System.Windows.Forms.DockStyle.Top;
228:         this.label7.Location = new System.Drawing.Point(0, 0);
229:         this.label7.Name = "label7";
230:         this.label7.Size = new System.Drawing.Size(68, 13);
231:         this.label7.TabIndex = 18;
232:         this.label7.Text = "Sifre Islemleri";
233:         this.label7.TextAlign = System.Drawing.ContentAlignment.TopCenter;
234:         //
235:         // btnSifreUygunMu
236:         //
237:         this.btnSifreUygunMu.Location = new System.Drawing.Point(173, 71);
238:         this.btnSifreUygunMu.Name = "btnSifreUygunMu";
239:         this.btnSifreUygunMu.Size = new System.Drawing.Size(145, 23);
240:         this.btnSifreUygunMu.TabIndex = 17;
241:         this.btnSifreUygunMu.Text = "Sifre Uygun Mu?";
242:         this.btnSifreUygunMu.UseVisualStyleBackColor = true;
243:         this.btnSifreUygunMu.Click += new System.EventHandler(this.btnSifreUygunMu_Click);
244:         //
245:         // btnRastgeleSifreUret
246:         //
247:         this.btnRastgeleSifreUret.Location = new System.Drawing.Point(21, 71);
248:         this.btnRastgeleSifreUret.Name = "btnRastgeleSifreUret";
249:         this.btnRastgeleSifreUret.Size = new System.Drawing.Size(145, 23);
250:         this.btnRastgeleSifreUret.TabIndex = 16;
251:         this.btnRastgeleSifreUret.Text = "Rastgele Sifre Üret";
252:         this.btnRastgeleSifreUret.UseVisualStyleBackColor = true;
253:         this.btnRastgeleSifreUret.Click += new
System.EventHandler(this.btnRastgeleSifreUret_Click);
254:         //
255:         // btnSha512Hash
256:         //
257:         this.btnSha512Hash.Location = new System.Drawing.Point(243, 42);
258:         this.btnSha512Hash.Name = "btnSha512Hash";
259:         this.btnSha512Hash.Size = new System.Drawing.Size(75, 23);
260:         this.btnSha512Hash.TabIndex = 15;
261:         this.btnSha512Hash.Text = "SHA 512";
262:         this.btnSha512Hash.UseVisualStyleBackColor = true;
263:         this.btnSha512Hash.Click += new System.EventHandler(this.btnSha512Hash_Click);
264:         //
265:         // btnSha256Hash
266:         //
```



```
267:         this.btnSha256Hash.Location = new System.Drawing.Point(131, 42);
268:         this.btnSha256Hash.Name = "btnSha256Hash";
269:         this.btnSha256Hash.Size = new System.Drawing.Size(75, 23);
270:         this.btnSha256Hash.TabIndex = 14;
271:         this.btnSha256Hash.Text = "SHA 256";
272:         this.btnSha256Hash.UseVisualStyleBackColor = true;
273:         this.btnSha256Hash.Click += new System.EventHandler(this.btnSha256Hash_Click);
274:         //
275:         // label6
276:         //
277:         this.label6.AutoSize = true;
278:         this.label6.Location = new System.Drawing.Point(21, 100);
279:         this.label6.Name = "label6";
280:         this.label6.Size = new System.Drawing.Size(38, 13);
281:         this.label6.TabIndex = 13;
282:         this.label6.Text = "Sonuç";
283:         //
284:         // lbSifreSonuc
285:         //
286:         this.lbSifreSonuc.FormattingEnabled = true;
287:         this.lbSifreSonuc.HorizontalScrollbar = true;
288:         this.lbSifreSonuc.Location = new System.Drawing.Point(65, 100);
289:         this.lbSifreSonuc.Name = "lbSifreSonuc";
290:         this.lbSifreSonuc.Size = new System.Drawing.Size(251, 69);
291:         this.lbSifreSonuc.TabIndex = 12;
292:         //
293:         // btnMd5Hash
294:         //
295:         this.btnMd5Hash.Location = new System.Drawing.Point(21, 42);
296:         this.btnMd5Hash.Name = "btnMd5Hash";
297:         this.btnMd5Hash.Size = new System.Drawing.Size(75, 23);
298:         this.btnMd5Hash.TabIndex = 11;
299:         this.btnMd5Hash.Text = "MD5";
300:         this.btnMd5Hash.UseVisualStyleBackColor = true;
301:         this.btnMd5Hash.Click += new System.EventHandler(this.btnMd5Hash_Click);
302:         //
303:         // txtSifrelenecekMetin
304:         //
305:         this.txtSifrelenecekMetin.Location = new System.Drawing.Point(118, 16);
306:         this.txtSifrelenecekMetin.Name = "txtSifrelenecekMetin";
307:         this.txtSifrelenecekMetin.Size = new System.Drawing.Size(199, 20);
308:         this.txtSifrelenecekMetin.TabIndex = 4;
309:         //
310:         // label5
311:         //
312:         this.label5.AutoSize = true;
313:         this.label5.Location = new System.Drawing.Point(17, 19);
314:         this.label5.Name = "label5";
315:         this.label5.Size = new System.Drawing.Size(95, 13);
316:         this.label5.TabIndex = 3;
317:         this.label5.Text = "Sifrelenecek Metin";
318:         //
319:         // pnlSayiIslemleri
320:         //
321:         this.pnlSayiIslemleri.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
322:         this.pnlSayiIslemleri.Controls.Add(this.label9);
323:         this.pnlSayiIslemleri.Controls.Add(this.btnOnayKoduOlustur);
324:         this.pnlSayiIslemleri.Controls.Add(this.btnMetneDonustur);
325:         this.pnlSayiIslemleri.Controls.Add(this.label10);
326:         this.pnlSayiIslemleri.Controls.Add(this.lbSayiSonuc);
327:         this.pnlSayiIslemleri.Controls.Add(this.btnSayisalMi);
328:         this.pnlSayiIslemleri.Controls.Add(this.txtSayi);
329:         this.pnlSayiIslemleri.Controls.Add(this.label11);
330:         this.pnlSayiIslemleri.Location = new System.Drawing.Point(15, 257);
331:         this.pnlSayiIslemleri.Name = "pnlSayiIslemleri";
332:         this.pnlSayiIslemleri.Size = new System.Drawing.Size(377, 181);
333:         this.pnlSayiIslemleri.TabIndex = 19;
334:         //
335:         // label9
```

```
336:    //
337:    this.label9.AutoSize = true;
338:    this.label9.Dock = System.Windows.Forms.DockStyle.Top;
339:    this.label9.Location = new System.Drawing.Point(0, 0);
340:    this.label9.Name = "label9";
341:    this.label9.Size = new System.Drawing.Size(67, 13);
342:    this.label9.TabIndex = 18;
343:    this.label9.Text = "Sayi Islemleri";
344:    this.label9.TextAlign = System.Drawing.ContentAlignment.TopCenter;
345:    //
346:    // btnOnayKoduOlustur
347:    //
348:    this.btnOnayKoduOlustur.Location = new System.Drawing.Point(243, 42);
349:    this.btnOnayKoduOlustur.Name = "btnOnayKoduOlustur";
350:    this.btnOnayKoduOlustur.Size = new System.Drawing.Size(75, 23);
351:    this.btnOnayKoduOlustur.TabIndex = 15;
352:    this.btnOnayKoduOlustur.Text = "Onay Kodu";
353:    this.btnOnayKoduOlustur.UseVisualStyleBackColor = true;
354:    this.btnOnayKoduOlustur.Click += new
System.EventHandler(this.btnOnayKoduOlustur_Click);
355:    //
356:    // btnMetneDonustur
357:    //
358:    this.btnMetneDonustur.Location = new System.Drawing.Point(102, 42);
359:    this.btnMetneDonustur.Name = "btnMetneDonustur";
360:    this.btnMetneDonustur.Size = new System.Drawing.Size(135, 23);
361:    this.btnMetneDonustur.TabIndex = 14;
362:    this.btnMetneDonustur.Text = "Para Metnine Dönüştür";
363:    this.btnMetneDonustur.UseVisualStyleBackColor = true;
364:    this.btnMetneDonustur.Click += new
System.EventHandler(this.btnMetneDonustur_Click);
365:    //
366:    // label10
367:    //
368:    this.label10.AutoSize = true;
369:    this.label10.Location = new System.Drawing.Point(18, 78);
370:    this.label10.Name = "label10";
371:    this.label10.Size = new System.Drawing.Size(38, 13);
372:    this.label10.TabIndex = 13;
373:    this.label10.Text = "Sonuç";
374:    //
375:    // lbSayiSonuc
376:    //
377:    this.lbSayiSonuc.FormattingEnabled = true;
378:    this.lbSayiSonuc.HorizontalScrollbar = true;
379:    this.lbSayiSonuc.Location = new System.Drawing.Point(62, 78);
380:    this.lbSayiSonuc.Name = "lbSayiSonuc";
381:    this.lbSayiSonuc.Size = new System.Drawing.Size(254, 82);
382:    this.lbSayiSonuc.TabIndex = 12;
383:    //
384:    // btnSayisalMi
385:    //
386:    this.btnSayisalMi.Location = new System.Drawing.Point(21, 42);
387:    this.btnSayisalMi.Name = "btnSayisalMi";
388:    this.btnSayisalMi.Size = new System.Drawing.Size(75, 23);
389:    this.btnSayisalMi.TabIndex = 11;
390:    this.btnSayisalMi.Text = "Sayisal Mi?";
391:    this.btnSayisalMi.UseVisualStyleBackColor = true;
392:    this.btnSayisalMi.Click += new System.EventHandler(this.btnSayisalMi_Click);
393:    //
394:    // txtSayi
395:    //
396:    this.txtSayi.Location = new System.Drawing.Point(118, 16);
397:    this.txtSayi.Name = "txtSayi";
398:    this.txtSayi.Size = new System.Drawing.Size(199, 20);
399:    this.txtSayi.TabIndex = 4;
400:    //
401:    // label11
402:    //
```

```
403:         this.label11.AutoSize = true;
404:         this.label11.Location = new System.Drawing.Point(17, 19);
405:         this.label11.Name = "label11";
406:         this.label11.Size = new System.Drawing.Size(95, 13);
407:         this.label11.TabIndex = 3;
408:         this.label11.Text = "Sifrelenecek Metin";
409:         //
410:         // pnlKisiIslemleri
411:         //
412:         this.pnlKisiIslemleri.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
413:         this.pnlKisiIslemleri.Controls.Add(this.label12);
414:         this.pnlKisiIslemleri.Controls.Add(this.btnEPostaDogrula);
415:         this.pnlKisiIslemleri.Controls.Add(this.btnIbanDogrula);
416:         this.pnlKisiIslemleri.Controls.Add(this.label13);
417:         this.pnlKisiIslemleri.Controls.Add(this.lbKisiSonuc);
418:         this.pnlKisiIslemleri.Controls.Add(this.btnTcKimlikDogrula);
419:         this.pnlKisiIslemleri.Controls.Add(this.txtKisiMetni);
420:         this.pnlKisiIslemleri.Controls.Add(this.label14);
421:         this.pnlKisiIslemleri.Location = new System.Drawing.Point(411, 257);
422:         this.pnlKisiIslemleri.Name = "pnlKisiIslemleri";
423:         this.pnlKisiIslemleri.Size = new System.Drawing.Size(377, 181);
424:         this.pnlKisiIslemleri.TabIndex = 20;
425:         //
426:         // label12
427:         //
428:         this.label12.AutoSize = true;
429:         this.label12.Dock = System.Windows.Forms.DockStyle.Top;
430:         this.label12.Location = new System.Drawing.Point(0, 0);
431:         this.label12.Name = "label12";
432:         this.label12.Size = new System.Drawing.Size(63, 13);
433:         this.label12.TabIndex = 18;
434:         this.label12.Text = "Kisi Islemleri";
435:         this.label12.TextAlign = System.Drawing.ContentAlignment.TopCenter;
436:         //
437:         // btnEPostaDogrula
438:         //
439:         this.btnEPostaDogrula.Location = new System.Drawing.Point(223, 42);
440:         this.btnEPostaDogrula.Name = "btnEPostaDogrula";
441:         this.btnEPostaDogrula.Size = new System.Drawing.Size(95, 23);
442:         this.btnEPostaDogrula.TabIndex = 15;
443:         this.btnEPostaDogrula.Text = "E-Posta Dogrula";
444:         this.btnEPostaDogrula.UseVisualStyleBackColor = true;
445:         this.btnEPostaDogrula.Click += new
System.EventHandler(this.btnEPostaDogrula_Click);
446:         //
447:         // btnIbanDogrula
448:         //
449:         this.btnIbanDogrula.Location = new System.Drawing.Point(131, 42);
450:         this.btnIbanDogrula.Name = "btnIbanDogrula";
451:         this.btnIbanDogrula.Size = new System.Drawing.Size(86, 23);
452:         this.btnIbanDogrula.TabIndex = 14;
453:         this.btnIbanDogrula.Text = "IBAN Dogrula";
454:         this.btnIbanDogrula.UseVisualStyleBackColor = true;
455:         this.btnIbanDogrula.Click += new System.EventHandler(this.btnIbanDogrula_Click);
456:         //
457:         // label13
458:         //
459:         this.label13.AutoSize = true;
460:         this.label13.Location = new System.Drawing.Point(18, 78);
461:         this.label13.Name = "label13";
462:         this.label13.Size = new System.Drawing.Size(38, 13);
463:         this.label13.TabIndex = 13;
464:         this.label13.Text = "Sonuç";
465:         //
466:         // lbKisiSonuc
467:         //
468:         this.lbKisiSonuc.FormattingEnabled = true;
469:         this.lbKisiSonuc.HorizontalScrollbar = true;
470:         this.lbKisiSonuc.Location = new System.Drawing.Point(62, 78);
```



```

471:         this.lbKisiSonuc.Name = "lbKisiSonuc";
472:         this.lbKisiSonuc.Size = new System.Drawing.Size(254, 82);
473:         this.lbKisiSonuc.TabIndex = 12;
474:         //
475:         // btnTcKimlikDogrula
476:         //
477:         this.btnTcKimlikDogrula.Location = new System.Drawing.Point(21, 42);
478:         this.btnTcKimlikDogrula.Name = "btnTcKimlikDogrula";
479:         this.btnTcKimlikDogrula.Size = new System.Drawing.Size(104, 23);
480:         this.btnTcKimlikDogrula.TabIndex = 11;
481:         this.btnTcKimlikDogrula.Text = "TC Kimlik Dogrula";
482:         this.btnTcKimlikDogrula.UseVisualStyleBackColor = true;
483:         this.btnTcKimlikDogrula.Click += new
System.EventHandler(this.btnTcKimlikDogrula_Click);
484:         //
485:         // txtKisiMetni
486:         //
487:         this.txtKisiMetni.Location = new System.Drawing.Point(118, 16);
488:         this.txtKisiMetni.Name = "txtKisiMetni";
489:         this.txtKisiMetni.Size = new System.Drawing.Size(199, 20);
490:         this.txtKisiMetni.TabIndex = 4;
491:         //
492:         // label14
493:         //
494:         this.label14.AutoSize = true;
495:         this.label14.Location = new System.Drawing.Point(17, 19);
496:         this.label14.Name = "label14";
497:         this.label14.Size = new System.Drawing.Size(33, 13);
498:         this.label14.TabIndex = 3;
499:         this.label14.Text = "Metin";
500:         //
501:         // pnlMetinIslemleri
502:         //
503:         this.pnlMetinIslemleri.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
504:         this.pnlMetinIslemleri.Controls.Add(this.btnTelefonNoDuzenle);
505:         this.pnlMetinIslemleri.Controls.Add(this.btnMetinSifrele);
506:         this.pnlMetinIslemleri.Controls.Add(this.label15);
507:         this.pnlMetinIslemleri.Controls.Add(this.btnTurkceKarakterDuzelt);
508:         this.pnlMetinIslemleri.Controls.Add(this.btnIlkHarfiBuyukYap);
509:         this.pnlMetinIslemleri.Controls.Add(this.label16);
510:         this.pnlMetinIslemleri.Controls.Add(this.lbMetinSonuc);
511:         this.pnlMetinIslemleri.Controls.Add(this.btnIlkHarfleriBuyukYap);
512:         this.pnlMetinIslemleri.Controls.Add(this.txtMetin);
513:         this.pnlMetinIslemleri.Controls.Add(this.label17);
514:         this.pnlMetinIslemleri.Location = new System.Drawing.Point(15, 458);
515:         this.pnlMetinIslemleri.Name = "pnlMetinIslemleri";
516:         this.pnlMetinIslemleri.Size = new System.Drawing.Size(773, 181);
517:         this.pnlMetinIslemleri.TabIndex = 21;
518:         //
519:         // btnTelefonNoDuzenle
520:         //
521:         this.btnTelefonNoDuzenle.Location = new System.Drawing.Point(503, 42);
522:         this.btnTelefonNoDuzenle.Name = "btnTelefonNoDuzenle";
523:         this.btnTelefonNoDuzenle.Size = new System.Drawing.Size(134, 23);
524:         this.btnTelefonNoDuzenle.TabIndex = 20;
525:         this.btnTelefonNoDuzenle.Text = "Telefon No Düzenle";
526:         this.btnTelefonNoDuzenle.UseVisualStyleBackColor = true;
527:         this.btnTelefonNoDuzenle.Click += new
System.EventHandler(this.btnTelefonNoDuzenle_Click);
528:         //
529:         // btnMetinSifrele
530:         //
531:         this.btnMetinSifrele.Location = new System.Drawing.Point(363, 42);
532:         this.btnMetinSifrele.Name = "btnMetinSifrele";
533:         this.btnMetinSifrele.Size = new System.Drawing.Size(134, 23);
534:         this.btnMetinSifrele.TabIndex = 19;
535:         this.btnMetinSifrele.Text = "Metin Sifrele";
536:         this.btnMetinSifrele.UseVisualStyleBackColor = true;
537:         this.btnMetinSifrele.Click += new System.EventHandler(this.btnMetinSifrele_Click);

```

```
538:    //
539:    // label15
540:    //
541:    this.label15.AutoSize = true;
542:    this.label15.Dock = System.Windows.Forms.DockStyle.Top;
543:    this.label15.Location = new System.Drawing.Point(0, 0);
544:    this.label15.Name = "label15";
545:    this.label15.Size = new System.Drawing.Size(73, 13);
546:    this.label15.TabIndex = 18;
547:    this.label15.Text = "Metin İşlemleri";
548:    this.label15.TextAlign = System.Drawing.ContentAlignment.TopCenter;
549:    //
550:    // btnTürkçeKarakterDüzeltil
551:    //
552:    this.btnTürkçeKarakterDüzeltil.Location = new System.Drawing.Point(223, 42);
553:    this.btnTürkçeKarakterDüzeltil.Name = "btnTürkçeKarakterDüzeltil";
554:    this.btnTürkçeKarakterDüzeltil.Size = new System.Drawing.Size(134, 23);
555:    this.btnTürkçeKarakterDüzeltil.TabIndex = 15;
556:    this.btnTürkçeKarakterDüzeltil.Text = "Türkçe Karakter Düzelt";
557:    this.btnTürkçeKarakterDüzeltil.UseVisualStyleBackColor = true;
558:    this.btnTürkçeKarakterDüzeltil.Click += new
System.EventHandler(this.btnTürkçeKarakterDüzeltil_Click);
559:    //
560:    // btnİlkHarfiBuyukYap
561:    //
562:    this.btnİlkHarfiBuyukYap.Location = new System.Drawing.Point(131, 42);
563:    this.btnİlkHarfiBuyukYap.Name = "btnİlkHarfiBuyukYap";
564:    this.btnİlkHarfiBuyukYap.Size = new System.Drawing.Size(86, 23);
565:    this.btnİlkHarfiBuyukYap.TabIndex = 14;
566:    this.btnİlkHarfiBuyukYap.Text = "İlk Harf Büyük";
567:    this.btnİlkHarfiBuyukYap.UseVisualStyleBackColor = true;
568:    this.btnİlkHarfiBuyukYap.Click += new
System.EventHandler(this.btnİlkHarfiBuyukYap_Click);
569:    //
570:    // label16
571:    //
572:    this.label16.AutoSize = true;
573:    this.label16.Location = new System.Drawing.Point(18, 78);
574:    this.label16.Name = "label16";
575:    this.label16.Size = new System.Drawing.Size(38, 13);
576:    this.label16.TabIndex = 13;
577:    this.label16.Text = "Sonuç";
578:    //
579:    // lbMetinSonuc
580:    //
581:    this.lbMetinSonuc.FormattingEnabled = true;
582:    this.lbMetinSonuc.HorizontalScrollbar = true;
583:    this.lbMetinSonuc.Location = new System.Drawing.Point(62, 78);
584:    this.lbMetinSonuc.Name = "lbMetinSonuc";
585:    this.lbMetinSonuc.Size = new System.Drawing.Size(652, 82);
586:    this.lbMetinSonuc.TabIndex = 12;
587:    //
588:    // btnİlkHarfleriBuyukYap
589:    //
590:    this.btnİlkHarfleriBuyukYap.Location = new System.Drawing.Point(21, 42);
591:    this.btnİlkHarfleriBuyukYap.Name = "btnİlkHarfleriBuyukYap";
592:    this.btnİlkHarfleriBuyukYap.Size = new System.Drawing.Size(104, 23);
593:    this.btnİlkHarfleriBuyukYap.TabIndex = 11;
594:    this.btnİlkHarfleriBuyukYap.Text = "İlk Harfler Büyük";
595:    this.btnİlkHarfleriBuyukYap.UseVisualStyleBackColor = true;
596:    this.btnİlkHarfleriBuyukYap.Click += new
System.EventHandler(this.btnİlkHarfleriBuyukYap_Click);
597:    //
598:    // txtMetin
599:    //
600:    this.txtMetin.Location = new System.Drawing.Point(119, 12);
601:    this.txtMetin.Name = "txtMetin";
602:    this.txtMetin.Size = new System.Drawing.Size(595, 20);
603:    this.txtMetin.TabIndex = 4;
```

```

604:    //
605:    // label17
606:    //
607:    this.label17.AutoSize = true;
608:    this.label17.Location = new System.Drawing.Point(17, 19);
609:    this.label17.Name = "label17";
610:    this.label17.Size = new System.Drawing.Size(33, 13);
611:    this.label17.TabIndex = 3;
612:    this.label17.Text = "Metin";
613:    //
614:    // FrmAnaSayfa
615:    //
616:    this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
617:    this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
618:    this.AutoSizeMode = System.Windows.Forms.AutoSizeMode.GrowAndShrink;
619:    this.ClientSize = new System.Drawing.Size(800, 686);
620:    this.Controls.Add(this.pnlMetinIslemleri);
621:    this.Controls.Add(this.pnlKisiIslemleri);
622:    this.Controls.Add(this.pnlSayiIslemleri);
623:    this.Controls.Add(this.pnlSifreIslemleri);
624:    this.Controls.Add(this.pnlTarihIslemleri);
625:    this.Controls.Add(this.label1);
626:    this.Controls.Add(this.cmbIslemTuru);
627:    this.Name = "FrmAnaSayfa";
628:    this.StartPosition = System.Windows.Forms.FormStartPosition.CenterScreen;
629:    this.Text = "Islemler Ekrani";
630:    this.Load += new System.EventHandler(this.FrmAnaSayfa_Load);
631:    this.pnlTarihIslemleri.ResumeLayout(false);
632:    this.pnlTarihIslemleri.PerformLayout();
633:    this.pnlSifreIslemleri.ResumeLayout(false);
634:    this.pnlSifreIslemleri.PerformLayout();
635:    this.pnlSayiIslemleri.ResumeLayout(false);
636:    this.pnlSayiIslemleri.PerformLayout();
637:    this.pnlKisiIslemleri.ResumeLayout(false);
638:    this.pnlKisiIslemleri.PerformLayout();
639:    this.pnlMetinIslemleri.ResumeLayout(false);
640:    this.pnlMetinIslemleri.PerformLayout();
641:    this.ResumeLayout(false);
642:    this.PerformLayout();
643: }

```

1.1.3.2 Program Class

Class Hierarchy

CSharpHelperMethods.Program

C#

```
internal static class Program;
```


File

Program.cs (see page 96)

Description

This is class CSharpHelperMethods.Program.

Program Methods

	Name	Description
	Main (see page 65)	The main entry point for the application.

1.1.3.2.1 Program Methods

1.1.3.2.1.1 Program.Main Method

The main entry point for the application.

C#

```
[STAThread]
private static void Main();
```

Body Source

```
1: [STAThread]
2: private static void Main()
3: {
4:     Application.EnableVisualStyles();
5:     Application.SetCompatibleTextRenderingDefault(false);
6:     Application.Run(new FrmAnaSayfa());
7: }
```

1.2 Files

The following table lists files in this documentation.

Files

Name	Description
AssemblyInfo.cs (see page 65)	This is file AssemblyInfo.cs.
CSharpHelperMethods.csproj (see page 66)	This is file CSharpHelperMethods.csproj.
CSharpHelperMethods.sln (see page 66)	This is file CSharpHelperMethods.sln.
DataTableIslemleri.cs (see page 66)	This is file DataTableIslemleri.cs.
Dosyalslemleri.cs (see page 68)	This is file Dosyalslemleri.cs.
FrmAnaSayfa.cs (see page 71)	This is file FrmAnaSayfa.cs.
FrmAnaSayfa.Designer.cs (see page 80)	This is file FrmAnaSayfa.Designer.cs.
Kisilslemleri.cs (see page 91)	This is file Kisilslemleri.cs.
MetinIslemleri.cs (see page 93)	This is file MetinIslemleri.cs.
Program.cs (see page 96)	This is file Program.cs.
Resources.Designer.cs (see page 96)	This code was generated by a tool. Runtime Version:4.0.30319.42000 Changes to this file may cause incorrect behavior and will be lost if the code is regenerated.
Sabitler.cs (see page 98)	This is file Sabitler.cs.
SayIslemleri.cs (see page 99)	This is file SayIslemleri.cs.
Settings.Designer.cs (see page 101)	This code was generated by a tool. Runtime Version:4.0.30319.42000 Changes to this file may cause incorrect behavior and will be lost if the code is regenerated.
Sifrelemelslemleri.cs (see page 102)	This is file Sifrelemelslemleri.cs.
Siralamalslemleri.cs (see page 104)	This is file Siralamalslemleri.cs.
TarihIslemleri.cs (see page 105)	This is file TarihIslemleri.cs.

1.2.1 AssemblyInfo.cs

This is file AssemblyInfo.cs.

Body Source

```

1: ?using System.Reflection;
2: using System.Runtime.InteropServices;
3:
4: // General Information about an assembly is controlled through the following
5: // set of attributes. Change these attribute values to modify the information
6: // associated with an assembly.
7: [assembly: AssemblyTitle("CSharpHelperMethods")]
8: [assembly: AssemblyDescription("")]
9: [assembly: AssemblyConfiguration("")]
10: [assembly: AssemblyCompany("")]
11: [assembly: AssemblyProduct("CSharpHelperMethods")]
12: [assembly: AssemblyCopyright("Copyright © 2021")]
13: [assembly: AssemblyTrademark("")]
14: [assembly: AssemblyCulture("")]
15:
16: // Setting ComVisible to false makes the types in this assembly not visible
17: // to COM components. If you need to access a type in this assembly from
18: // COM, set the ComVisible attribute to true on that type.
19: [assembly: ComVisible(false)]
20:
21: // The following GUID is for the ID of the typelib if this project is exposed to COM
22: [assembly: Guid("be02934f-770b-411c-aa8c-43b2efal8625")]
23:
24: // Version information for an assembly consists of the following four values:
25: //
26: //      Major Version
27: //      Minor Version
28: //      Build Number
29: //      Revision
30: //
31: // You can specify all the values or you can default the Build and Revision Numbers
32: // by using the '*' as shown below:
33: // [assembly: AssemblyVersion("1.0.*")]
34: [assembly: AssemblyVersion("1.0.0.0")]
35: [assembly: AssemblyFileVersion("1.0.0.0")]

```

1.2.2 CSharpHelperMethods.csproj

This is file CSharpHelperMethods.csproj.

1.2.3 CSharpHelperMethods.sln

This is file CSharpHelperMethods.sln.

1.2.4 DataTableIslemleri.cs

This is file DataTableIslemleri.cs.

Body Source

```

1: ?using System;
2: using System.Collections.Generic;
3: using System.Data;
4: using System.Reflection;
5:

```

```

6: namespace CSharpHelperMethods.YardimciSiniflar
7: {
8:     /// <summary>
9:     /// Raporlama için lazım olan DataTable vb. verilerin düzenlenmesini saglayan
siniflardir.
10:    /// </summary>
11:    public static class DataTableIslemleri
12:    {
13:        /// <summary>
14:        /// Parametre olarak girilen herhangi bir sinif türünden listeyi
15:        /// Idael bir sekilde Nullable alan içermeyen bir DataTable'a çevirmek için
kullanilan metottur.
16:        /// </summary>
17:        /// <typeparam name="T">Generic Nesne Tipi</typeparam>
18:        /// <param name="liste">Liste Bilgisi</param>
19:        /// <returns>DataTable cinsinde Nesne</returns>
20:        public static DataTable ToDataTable<T>(List<T> liste)
21:        {
22:            try
23:            {
24:                var sonuc = new DataTable(typeof(T).Name);
25:
26:                var ozellikler = typeof(T).GetFields(BindingFlags.Public |
BindingFlags.CreateInstance | BindingFlags.Default | BindingFlags.DeclaredOnly |
BindingFlags.ExactBinding | BindingFlags.FlattenHierarchy | BindingFlags.IgnoreReturn |
BindingFlags.Instance | BindingFlags.InvokeMethod | BindingFlags.NonPublic |
BindingFlags.OptionalParamBinding | BindingFlags.SuppressChangeType);
27:
28:                var ozellikler2 = typeof(T).GetProperties(BindingFlags.Public |
BindingFlags.CreateInstance | BindingFlags.Default | BindingFlags.DeclaredOnly |
BindingFlags.ExactBinding | BindingFlags.FlattenHierarchy | BindingFlags.IgnoreReturn |
BindingFlags.Instance | BindingFlags.InvokeMethod | BindingFlags.NonPublic |
BindingFlags.OptionalParamBinding | BindingFlags.SuppressChangeType);
29:
30:                foreach (var ozellik in ozellikler)
31:                {
32:                    var varMi = false;
33:                    foreach (var ozellik2 in ozellikler2)
34:                    {
35:                        if (!ozellik.Name.Contains(ozellik2.Name)) continue;
36:                        varMi = true;
37:                        var ozellikAdi = ozellik.Name.Replace("<", "");
38:                        var ozellikDizi = ozellikAdi.Split('>');
39:                        var ozellikTemp = ozellikDizi[0].Trim();
40:                        //ozellikTemp = ozellikTemp.Substring(0, ozellikTemp.Length -
1);
41:                        if (ozellikTemp == ozellik2.Name)
42:                        {
43:                            if (sonuc.Columns.IndexOf(new DataColumn(ozellik2.Name))
>= 0) continue;
44:                            sonuc.Columns.Add(ozellik2.Name,
BaseType(ozellik2.PropertyType));
45:                            break;
46:                        }
47:
48:                        if (sonuc.Columns.IndexOf(new DataColumn(ozellikTemp)) >= 0)
continue;
49:                        sonuc.Columns.Add(ozellikTemp,
BaseType(ozellik2.PropertyType));
50:                        break;
51:                    }
52:
53:                    if (varMi) continue;
54:                    if (sonuc.Columns.IndexOf(new DataColumn(ozellik.Name)) < 0)
55:                    {
56:                        sonuc.Columns.Add(ozellik.Name, BaseType(ozellik.FieldType));
57:                    }
58:
59:                }

```

```

60:
61:         foreach (var nesne in liste)
62:         {
63:             var degerler = new object[ozellikler.Length];
64:
65:             for (var i = 0; i < ozellikler.Length; i++)
66:             {
67:                 var varMi = false;
68:                 foreach (var item in ozellikler2)
69:                 {
70:                     if (!ozellikler[i].Name.Contains(item.Name)) continue;
71:                     varMi = true;
72:                     degerler[i] = item.GetValue(nesne, null);
73:                     break;
74:                 }
75:                 if (!varMi)
76:                 {
77:                     degerler[i] = ozellikler[i].GetValue(nesne);
78:                 }
79:             }
80:
81:             sonuc.Rows.Add(degerler);
82:         }
83:     }
84:
85:     return sonuc;
86: }
87: catch (Exception)
88: {
89:     return null;
90: }
91: }
92:
93: /// <summary>
94: /// Nesnenin içindeki her hangi bir degerin (DateTime, decimal vb.)
95: /// Eger Nullable ise, Nullable olmamasini saglayan metottur
96: /// (Çünkü Crystal Report, Telerik vb. Nullable alan kabul etmiyor)
97: /// </summary>
98: /// <param name="oType">Veri Tipi</param>
99: /// <returns>Verinin Ideal Tipi</returns>
100: private static Type BaseType(Type oType) => oType != null && oType.IsValueType
&& oType.IsGenericType && oType.GetGenericTypeDefinition() == typeof(Nullable<>) ?
Nullable.GetUnderlyingType(oType) : oType;
101: }
102: }

```

Namespaces

Name	Description
CSharpHelperMethods (see page 1)	This is namespace CSharpHelperMethods.

1.2.5 Dosyalslemleri.cs

This is file Dosyalslemleri.cs.

Body Source

```

1: ?using System;
2: using System.IO;
3:
4: namespace CSharpHelperMethods.YardimciSiniflar
5: {
6:     /// <summary>
7:     /// Dosya islemleri ile ilgili yardimici sinif
8:     /// </summary>

```



```

9:      public static class DosyaIslemleri
10:     {
11:         /// <summary>
12:         /// Dosya uzantisindan dosyanin türünün ne oldugunu getiren metottur
13:         /// </summary>
14:         /// <param name="extension">Dosya Uzantisi</param>
15:         /// <returns>Dosya Türü Bilgisi</returns>
16:         public static string GetirIcerikTipiDosyaUzantisiIle(string extension)
17:         {
18:             var contentType = String.Empty;
19:             extension = extension.Replace(".", "").ToLower();
20:             switch (extension)
21:             {
22:                 case "pdf": contentType = "application/pdf"; break;
23:                 case "jpeg": contentType = "image/jpeg"; break;
24:                 case "jpg": contentType = "image/jpg"; break;
25:                 case "png": contentType = "image/png"; break;
26:                 case "bmp": contentType = "image/bmp"; break;
27:                 case "doc": contentType = "application/msword"; break;
28:                 case "pptx": contentType =
"application/vnd.openxmlformats-officedocument.presentationml.presentation"; break;
29:                 case "xls": contentType = "application/vnd.ms-excel"; break;
30:                 case "txt": contentType = "text/plain"; break;
31:                 case "xlsx": contentType =
"application/vnd.openxmlformats-officedocument.spreadsheetml.sheet"; break;
32:                 case "rtf": contentType = "application/rtf"; break;
33:                 case "docx": contentType =
"application/vnd.openxmlformats-officedocument.wordprocessingml.document"; break;
34:                 case "ppt": contentType = "application/vnd.ms-powerpoint"; break;
35:                 case "zip": contentType = "application/zip"; break;
36:                 case "rar": contentType = "application/x-rar-compressed"; break;
37:                 case "7z": contentType = "application/x-7z-compressed"; break;
38:                 default: contentType = "application/octet-stream"; break;
39:             }
40:
41:             return contentType;
42:         }
43:
44:         /// <summary>
45:         /// Dosyanin türünden dosyanin uzantisinin ne oldugunu getiren metottur
46:         /// </summary>
47:         /// <param name="mimeType">Mime Type</param>
48:         /// <returns>Dosya Türü Bilgisi</returns>
49:         public static string GetirDosyaUzantisiMimeTypeIle(string mimeType)
50:         {
51:             string dosyaUzantisi;
52:             mimeType = mimeType.ToLower();
53:             switch (mimeType)
54:             {
55:                 case "application/pdf": dosyaUzantisi = "pdf"; break;
56:                 case "image/jpeg": dosyaUzantisi = "jpeg"; break;
57:                 case "image/jpg": dosyaUzantisi = "jpg"; break;
58:                 case "image/png": dosyaUzantisi = "png"; break;
59:                 case "image/bmp": dosyaUzantisi = "bmp"; break;
60:                 case "application/msword": dosyaUzantisi = "doc"; break;
61:                 case "application / vnd.openxmlformats -
officedocument.presentationml.presentation": dosyaUzantisi = "pptx"; break;
62:                 case "application/vnd.ms-excel": dosyaUzantisi = "xls"; break;
63:                 case "text/plain": dosyaUzantisi = "txt"; break;
64:                 case
"application/vnd.openxmlformats-officedocument.spreadsheetml.sheet": dosyaUzantisi =
"xlsx"; break;
65:                 case
"application/vnd.openxmlformats-officedocument.wordprocessingml.document": dosyaUzantisi =
"docx"; break;
66:                 case "text/xml": dosyaUzantisi = "xml"; break;
67:                 case "application/vnd.ms-powerpoint": dosyaUzantisi = "ppt"; break;
68:                 case "application/zip": dosyaUzantisi = "zip"; break;
69:                 case "application/x-rar-compressed": dosyaUzantisi = "rar"; break;

```



```

70:             case "application/x-7z-compressed": dosyaUzantisi = "7z"; break;
71:             default: dosyaUzantisi = "error"; break;
72:         }
73:
74:         return dosyaUzantisi;
75:     }
76:
77:     /// <summary>
78:     /// Sisteme yüklenecek dosyanın belirlenen kriterlere uyup uymadığını kontrol
79:     /// Dosyanın uzantisi istediğimiz formatta değilse yanlış olarak geri
80:     /// döndürecektir.s
81:     /// </summary>
82:     /// <param name="extension">Dosya Uzantisi</param>
83:     /// <returns>Eklenicek Dosyanın Uygun Olup Olmadığı Bilgisi</returns>
84:     public static bool DosyaUzantisiUygunMu(string extension)
85:     {
86:         extension = extension.ToLower();
87:
88:         return extension == ".jpg" || extension == ".bmp" || extension == ".png"
89:         || extension == ".doc" || extension == ".docx" || extension == ".ppt" || extension ==
90:         ".pptx" || extension == ".xls" || extension == ".xlsx" || extension == ".rar" || extension
91:         == ".zip" || extension == ".7z" || extension == ".pdf" || extension == ".txt" || extension
92:         == ".rtf";
93:     }
94:
95:     /// <summary>
96:     /// Dosya sistemindeki bir dosyanın başka bir program tarafından o anda
97:     /// kullanımda olup olmadığının kontrol edildiği bir metottur.
98:     /// </summary>
99:     /// <param name="dosya">Dosya Bilgisi</param>
100:    /// <returns>Evet veya Hayir Bilgisi</returns>
101:    public static bool DosyaKilitliMi(FileInfo dosya)
102:    {
103:        FileStream stream = null;
104:        try
105:        {
106:            stream = dosya.Open(FileMode.Open, FileAccess.ReadWrite,
107:            FileShare.None);
108:        }
109:        catch (IOException)
110:        {
111:            // eger dosya başka bir uygulama tarafından kullanılıyorsa
112:            // burada true dönüyor ki
113:            // kullanıcı bu metottan gelen bilgiye göre davranışın
114:            return true;
115:        }
116:        finally
117:        {
118:            stream?.Close();
119:        }
120:
121:        //file is not locked
122:        return false;
123:    }
124:
125:    /// <summary>
126:    /// Bu metot ile gönderdiğiniz Dizin yolunda verdiğiniz isimde bir klasör yoksa
127:    /// Otomatik olarak oluşturmaya çalışıyor
128:    /// </summary>
129:    /// <param name="dizinYolu">Dizin Yolu Bilgisi</param>
130:    /// <returns>Evet veya Hayir Bilgisi</returns>
131:    public static bool GuvenliDizinOlustur(string dizinYolu)
132:    {
133:        var isExists = Directory.Exists(dizinYolu);
134:
135:        if (!isExists)
136:            Directory.CreateDirectory(dizinYolu);
137:
138:        return isExists;

```

```

131:     }
132: }
133: }

```

Namespaces

Name	Description
CSharpHelperMethods (see page 1)	This is namespace CSharpHelperMethods.

1.2.6 FrmAnaSayfa.cs

This is file FrmAnaSayfa.cs.

Body Source

```

1: ?using System.Drawing;
2: using CSharpHelperMethods.YardimciSiniflar;
3: using System.Text;
4: using System.Windows.Forms;
5:
6: namespace CSharpHelperMethods
7: {
8:     public partial class FrmAnaSayfa : Form
9:     {
10:         public FrmAnaSayfa()
11:         {
12:             InitializeComponent();
13:         }
14:
15:         #region Formun Yüklmesi, Panel Seçimi ve ListBox Düzenlemeleri
16:         /// <summary>
17:         /// Form İlk Yüklendiği zaman ekrandaki bütün panellerin erişilemez hale
18:         /// getirilmesi
19:         /// saglanıyor Bu metotta, çünkü hangi panelin aktiveleceğinin
20:         /// Combobox üzerinden seçilmesi lazım
21:         /// </summary>
22:         /// <param name="sender">The sender info (For example Main Form)</param>
23:         /// <param name="e">Event Arguments</param>
24:         private void FrmAnaSayfa_Load(object sender, System.EventArgs e)
25:         {
26:             cmbIslemTuru.DropDownStyle = ComboBoxStyle.DropDownList;
27:             #region Sayfa İlk Yüklendiğinde Tüm Panellerin Erisime Kapanmasi
28:             pnlTarihIslemleri.Enabled = false;
29:             pnlSifreIslemleri.Enabled = false;
30:             pnlSayiIslemleri.Enabled = false;
31:             pnlKisiIslemleri.Enabled = false;
32:             pnlMetinIslemleri.Enabled = false;
33:             #endregion
34:             #region Bütün Listboxların MultiLine Yapilmasi
35:             lbMetinSonuc.DrawMode = DrawMode.OwnerDrawVariable;
36:             lbMetinSonuc.MeasureItem += listBox_MeasureItem;
37:             lbMetinSonuc.DrawItem += listBox_DrawItem;
38:             lbSayiSonuc.DrawMode = DrawMode.OwnerDrawVariable;
39:             lbSayiSonuc.MeasureItem += listBox_MeasureItem;
40:             lbSayiSonuc.DrawItem += listBox_DrawItem;
41:             lbKisiSonuc.DrawMode = DrawMode.OwnerDrawVariable;
42:             lbKisiSonuc.MeasureItem += listBox_MeasureItem;
43:             lbKisiSonuc.DrawItem += listBox_DrawItem;
44:             lbSifreSonuc.DrawMode = DrawMode.OwnerDrawVariable;
45:             lbSifreSonuc.MeasureItem += listBox_MeasureItem;
46:             lbSifreSonuc.DrawItem += listBox_DrawItem;
47:             lbSonuc.DrawMode = DrawMode.OwnerDrawVariable;
48:             lbSonuc.MeasureItem += listBox_MeasureItem;
49:             lbSonuc.DrawItem += listBox_DrawItem;
50:             #endregion

```

```

50:     }
51:
52:     /// <summary>
53:     /// Islem Türü Combobox'ında seçilen degere göre
54:     /// Ekrandaki panellerden ilgili olan haricinde hepsinin erisilemez hale
    getirilmesi
55:     /// Eger bir sey seçilmemisse, tamaminin erisilemez hale getirilmesi için
56:     /// Gerekli islemlerin gerçekleştirildiği metottur.
57:     /// </summary>
58:     /// <param name="sender">The sender info (For example Main Form)</param>
59:     /// <param name="e">Event Arguments</param>
60:     private void cmbIslemTuru_SelectedIndexChanged(object sender, System.EventArgs
    e)
61:     {
62:         #region Combobox'tan Seçilen Degere Göre İlgili Paneli Aktif Hale Getirme
63:         switch (cmbIslemTuru.SelectedIndex)
64:         {
65:             // Metin Islemleri
66:             case 0:
67:             {
68:                 pnlMetinIslemleri.Enabled = true;
69:                 pnlTarihIslemleri.Enabled = false;
70:                 pnlSifreIslemleri.Enabled = false;
71:                 pnlSayiIslemleri.Enabled = false;
72:                 pnlKisiIslemleri.Enabled = false;
73:                 break;
74:             }
75:             // Tarih Islemleri
76:             case 1:
77:             {
78:                 pnlMetinIslemleri.Enabled = false;
79:                 pnlTarihIslemleri.Enabled = true;
80:                 pnlSifreIslemleri.Enabled = false;
81:                 pnlSayiIslemleri.Enabled = false;
82:                 pnlKisiIslemleri.Enabled = false;
83:                 break;
84:             }
85:             // Sayi Islemleri
86:             case 2:
87:             {
88:                 pnlMetinIslemleri.Enabled = false;
89:                 pnlTarihIslemleri.Enabled = false;
90:                 pnlSifreIslemleri.Enabled = false;
91:                 pnlSayiIslemleri.Enabled = true;
92:                 pnlKisiIslemleri.Enabled = false;
93:                 break;
94:             }
95:             // Sifre Islemleri
96:             case 3:
97:             {
98:                 pnlMetinIslemleri.Enabled = false;
99:                 pnlTarihIslemleri.Enabled = false;
100:                 pnlSifreIslemleri.Enabled = true;
101:                 pnlSayiIslemleri.Enabled = false;
102:                 pnlKisiIslemleri.Enabled = false;
103:                 break;
104:             }
105:             // Kisi Islemleri
106:             case 4:
107:             {
108:                 pnlMetinIslemleri.Enabled = false;
109:                 pnlTarihIslemleri.Enabled = false;
110:                 pnlSifreIslemleri.Enabled = false;
111:                 pnlSayiIslemleri.Enabled = false;
112:                 pnlKisiIslemleri.Enabled = true;
113:                 break;
114:             }
115:             // Bunlar haricinde herhangi bir sey
116:             default:

```

```

117:         {
118:             pnlMetinIslemleri.Enabled = false;
119:             pnlTarihIslemleri.Enabled = false;
120:             pnlSifreIslemleri.Enabled = false;
121:             pnlSayiIslemleri.Enabled = false;
122:             pnlKisiIslemleri.Enabled = false;
123:             break;
124:         }
125:     }
126: #endregion
127: }
128:
129: /// <summary>
130: /// This method is used to measure the length of the item in listbox and make
it multi line
131: /// without using scrollbar and let the user see more efficiently
132: /// </summary>
133: /// <param name="sender">The sender info (For example Main Form)</param>
134: /// <param name="e">Event Arguments</param>
135: private static void listBox_MeasureItem(object sender, MeasureItemEventArgs e)
136: {
137:     if (!(sender is ListBox listBox)) return;
138:     e.ItemHeight = (int) e.Graphics
139:         .MeasureString(listBox.Items[e.Index].ToString(), listBox.Font,
listBox.Width).Height;
140: }
141:
142: /// <summary>
143: /// This method is used to measure the length of the item in listbox and make
it multi line
144: /// without using scrollbar and let the user see more efficiently
145: /// </summary>
146: /// <param name="sender">The sender info (For example Main Form)</param>
147: /// <param name="e">Event Arguments</param>
148: private static void listBox_DrawItem(object sender, DrawItemEventArgs e)
149: {
150:     if (!(sender is ListBox listBox)) return;
151:     e.DrawBackground();
152:     e.DrawFocusRectangle();
153:     e.Graphics.DrawString(listBox.Items[e.Index].ToString(), e.Font, new
SolidBrush(e.ForeColor), e.Bounds);
154: }
155:
156: #endregion
157:
158: #region Tarih Islemleri
159:
160: /// <summary>
161: /// Paneldeki Baslangic Tarihi seçili ve tarih girilmisse,
162: /// o tarihten bugüne kaç yas oldugunun hesaplandigi metottur.
163: /// Ilgili butona tiklandigi zaman çalisir
164: /// </summary>
165: /// <param name="sender">The sender info (For example Main Form)</param>
166: /// <param name="e">Event Arguments</param>
167: private void btnYasHesapla_Click(object sender, System.EventArgs e)
168: {
169:     if (!dtpBaslangicTarihi.Checked)
170:         MessageBox.Show(Sabitler.BaslangicTarihiGirilmedi);
171:     else
172:     {
173:         lbSonuc.Items.Clear();
174:         var sb = new StringBuilder();
175:         sb.Append("Dogum tarihi seçilen kisi ");
176:         sb.Append(TarihIslemleri.YasHesapla(dtpBaslangicTarihi.Value));
177:         sb.Append(" yasinin içindedir");
178:         lbSonuc.Items.Add(sb.ToString());
179:     }
180: }
181:

```

```

182:         /// <summary>
183:         /// Paneldeki Baslangiç Tarihi seçili ve tarih girilirse,
184:         /// o tarihten bugüne kaç yas oldugunun yıl, ay ve gün
185:         /// olarak metinsel bir sekilde hesaplandigi metottur.
186:         /// Ilgili butona tiklandigi zaman çalışır
187:         /// </summary>
188:         /// <param name="sender">The sender info (For example Main Form)</param>
189:         /// <param name="e">Event Arguments</param>
190:         private void btnYasHesaplaMetinsel_Click(object sender, System.EventArgs e)
191:         {
192:             if (!dtpBaslangicTarihi.Checked)
193:                 MessageBox.Show(Sabitler.BaslangicTarihiGirilmedi);
194:             else
195:             {
196:                 lbSonuc.Items.Clear();
197:                 var sb = new StringBuilder();
198:                 sb.Append(TarihIslemleri.YasHesaplaMetinsel(dtpBaslangicTarihi.Value));
199:                 lbSonuc.Items.Add(sb.ToString());
200:             }
201:         }
202:
203:         /// <summary>
204:         /// Paneldeki Baslangiç Tarihi ve Bitis Tarihi alanlari seçili ve tarih
205:         /// girilirse, /// Söz konusu tarihler arasında kaç yıl, kaç ay ve gün oldugunun bilgisinin
206:         /// hazirlandigi metottur. /// Ilgili butona tiklandigi zaman çalışır
207:         /// </summary>
208:         /// <param name="sender">The sender info (For example Main Form)</param>
209:         /// <param name="e">Event Arguments</param>
210:         private void btnTarihAraligi_Click(object sender, System.EventArgs e)
211:         {
212:             if (!dtpBaslangicTarihi.Checked || !dtpBitisTarihi.Checked)
213:                 MessageBox.Show(Sabitler.BaslangicVeyaBitisTarihiGirilmedi);
214:             else if (dtpBaslangicTarihi.Value.Date > dtpBitisTarihi.Value.Date)
215:                 MessageBox.Show(Sabitler.BaslangicTarihiBuyuk);
216:             else
217:             {
218:                 lbSonuc.Items.Clear();
219:                 var sb = new StringBuilder();
220:                 sb.Append("İki tarih arasi: ");
221:                 sb.Append(TarihIslemleri.TarihAraligiHesapla(dtpBaslangicTarihi.Value.Date,
222:                 dtpBitisTarihi.Value.Date));
223:                 lbSonuc.Items.Add(sb.ToString());
224:             }
225:
226:         /// <summary>
227:         /// Paneldeki Baslangiç Tarihi ve Bitis Tarihi alanlari seçili ve tarih
228:         /// girilirse, /// Söz konusu tarihler arasında kaç ay oldugunun bilgisinin hazirlandigi
229:         /// metottur. /// Ilgili butona tiklandigi zaman çalışır
230:         /// </summary>
231:         /// <param name="sender">The sender info (For example Main Form)</param>
232:         /// <param name="e">Event Arguments</param>
233:         private void btnAyFarki_Click(object sender, System.EventArgs e)
234:         {
235:             if (!dtpBaslangicTarihi.Checked || !dtpBitisTarihi.Checked)
236:                 MessageBox.Show(Sabitler.BaslangicVeyaBitisTarihiGirilmedi);
237:             else if (dtpBaslangicTarihi.Value.Date > dtpBitisTarihi.Value.Date)
238:                 MessageBox.Show(Sabitler.BaslangicTarihiBuyuk);
239:             else
240:             {
241:                 lbSonuc.Items.Clear();
242:                 var sb = new StringBuilder();
243:                 sb.Append("Ay Farki: ");
244:                 sb.Append(TarihIslemleri.AyFarki(dtpBaslangicTarihi.Value.Date,

```

```

dtpBitisTarihi.Value.Date));
245:         lbSonuc.Items.Add(sb.ToString());
246:     }
247: }
248: #endregion
249:
250: #region Sifre Islemleri
251: /// <summary>
252: /// Paneldeki metin kutusu dolu ise
253: /// Girilen metnin MD5 algoritmasi ile sifrelenmis halini
254: /// Listbox üzerine yazdiran metottur.
255: /// </summary>
256: /// <param name="sender">The sender info (For example Main Form)</param>
257: /// <param name="e">Event Arguments</param>
258: private void btnMd5Hash_Click(object sender, System.EventArgs e)
259: {
260:     if (string.IsNullOrEmpty(txtSifrelenecekMetin.Text.Trim()))
261:         MessageBox.Show(Sabitler.SifrelenecekMetinGirilmedi);
262:     else
263:     {
264:         lbSifreSonuc.Items.Clear();
265:         var sb = new StringBuilder();
266:         sb.Append("Girilen Metnin MD5 Karsiligi: ");
267:         sb.Append(SifrelemeIslemleri.HesaplaMD5(txtSifrelenecekMetin.Text.Trim()));
268:         lbSifreSonuc.Items.Add(sb.ToString());
269:     }
270: }
271:
272: /// <summary>
273: /// Paneldeki metin kutusu dolu ise
274: /// Girilen metnin SHA 256 algoritmasi ile sifrelenmis halini
275: /// Listbox üzerine yazdiran metottur.
276: /// </summary>
277: /// <param name="sender">The sender info (For example Main Form)</param>
278: /// <param name="e">Event Arguments</param>
279: private void btnSha256Hash_Click(object sender, System.EventArgs e)
280: {
281:     if (string.IsNullOrEmpty(txtSifrelenecekMetin.Text.Trim()))
282:         MessageBox.Show(Sabitler.SifrelenecekMetinGirilmedi);
283:     else
284:     {
285:         lbSifreSonuc.Items.Clear();
286:         var sb = new StringBuilder();
287:         sb.Append("Girilen Metnin SHA 256 Karsiligi: ");
288:         sb.Append(SifrelemeIslemleri.HesaplaSHA256(txtSifrelenecekMetin.Text.Trim()));
289:         lbSifreSonuc.Items.Add(sb.ToString());
290:     }
291: }
292:
293: /// <summary>
294: /// Paneldeki metin kutusu dolu ise
295: /// Girilen metnin SHA 512 algoritmasi ile sifrelenmis halini
296: /// Listbox üzerine yazdiran metottur.
297: /// </summary>
298: /// <param name="sender">The sender info (For example Main Form)</param>
299: /// <param name="e">Event Arguments</param>
300: private void btnSha512Hash_Click(object sender, System.EventArgs e)
301: {
302:     if (string.IsNullOrEmpty(txtSifrelenecekMetin.Text.Trim()))
303:         MessageBox.Show(Sabitler.SifrelenecekMetinGirilmedi);
304:     else
305:     {
306:         lbSifreSonuc.Items.Clear();
307:         var sb = new StringBuilder();
308:         sb.Append("Girilen Metnin SHA 512 Karsiligi: ");
309:         sb.Append(SifrelemeIslemleri.HesaplaSHA512(txtSifrelenecekMetin.Text.Trim()));

```

```

310:         lbSifreSonuc.Items.Add(sb.ToString());
311:     }
312: }
313:
314: /// <summary>
315: /// Ilgili butona tiklandiginda rastgele sifre üretilmesini saglayan metottur
316: /// </summary>
317: /// <param name="sender">The sender info (For example Main Form)</param>
318: /// <param name="e">Event Arguments</param>
319: private void btnRastgeleSifreUret_Click(object sender, System.EventArgs e)
320: {
321:     lbSifreSonuc.Items.Clear();
322:     var sb = new StringBuilder();
323:     sb.Append("Rastgele Üretilen Sifre: ");
324:     sb.Append(SifrelemeIslemleri.RastgeleSifreUret());
325:     lbSifreSonuc.Items.Add(sb.ToString());
326: }
327:
328: /// <summary>
329: /// Paneldeki metin kutusu dolu ise
330: /// Burada yazilan metnin bir sifre olarak belirli kriterlere uygun olup
331: /// Gösterilmesini saglayan bir metottur
332: /// </summary>
333: /// <param name="sender">The sender info (For example Main Form)</param>
334: /// <param name="e">Event Arguments</param>
335: private void btnSifreUygunMu_Click(object sender, System.EventArgs e)
336: {
337:     if (string.IsNullOrEmpty(txtSifrelenecekMetin.Text.Trim()))
338:         MessageBox.Show(Sabitler.SifreMetniGirilmedi);
339:     else
340:     {
341:         lbSifreSonuc.Items.Clear();
342:         var sb = new StringBuilder();
343:         sb.Append("Girilen Sifrenin Uygunluk Durumu: ");
344:         sb.Append(SifrelemeIslemleri.SifreUygunMu(txtSifrelenecekMetin.Text.Trim()));
345:         lbSifreSonuc.Items.Add(sb.ToString());
346:     }
347: }
348: #endregion
349:
350: #region Sayi Islemleri
351: /// <summary>
352: /// Paneldeki metin kutusuna girilen metnin sayisal bir deger olup olmadigini
353: /// Kontrol eden ve sonucu gösteren metottur.
354: /// </summary>
355: /// <param name="sender">The sender info (For example Main Form)</param>
356: /// <param name="e">Event Arguments</param>
357: private void btnSayisalMi_Click(object sender, System.EventArgs e)
358: {
359:     if (string.IsNullOrEmpty(txtSayi.Text.Trim()))
360:         MessageBox.Show(Sabitler.MetinGirilmedi);
361:     else
362:     {
363:         lbSayiSonuc.Items.Clear();
364:         var sb = new StringBuilder();
365:         sb.Append("Girilen Metin Sayi Mi?: ");
366:         sb.Append(SayiIslemleri.SayisalMi(txtSayi.Text.Trim()) ? "Evet" :
"Hayir");
367:         lbSayiSonuc.Items.Add(sb.ToString());
368:     }
369: }
370:
371: /// <summary>
372: /// Paneldeki metin kutusuna girilen para birimi cinsinden rakamin
373: /// Yaziya çevrilmesini saglayan ve sonucu listbox üzerinde gösteren bir
374: metottur.
375: /// </summary>

```



```

375:         /// <param name="sender">The sender info (For example Main Form)</param>
376:         /// <param name="e">Event Arguments</param>
377:         private void btnMetneDonustur_Click(object sender, System.EventArgs e)
378:         {
379:             if (string.IsNullOrEmpty(txtSayi.Text.Trim()))
380:                 MessageBox.Show(Sabitler.MetinGirilmedi);
381:             else if (!SayiIslemleri.SayisalMi(txtSayi.Text.Trim().Replace(".", "")))
382:                 MessageBox.Show(Sabitler.MetinSayisalDegil);
383:             else
384:             {
385:                 var metinSadeceSayiKismi = txtSayi.Text.Trim();
386:                 var sayi = SayiIslemleri.SayiHalineCevir(metinSadeceSayiKismi);
387:                 lbSayiSonuc.Items.Clear();
388:                 var sb = new StringBuilder();
389:                 sb.Append("Girilen Sayinin Metin Hali (Parasal): ");
390:                 sb.Append(SayiIslemleri.SayiyiYaziyaCevir(sayi));
391:                 lbSayiSonuc.Items.Add(sb.ToString());
392:             }
393:         }
394:
395:         /// <summary>
396:         /// Rastgele olacak sekilde 6 haneli kod olusturmayi saglayan bir metottur.
397:         /// </summary>
398:         /// <param name="sender">The sender info (For example Main Form)</param>
399:         /// <param name="e">Event Arguments</param>
400:         private void btnOnayKoduOlustur_Click(object sender, System.EventArgs e)
401:         {
402:             lbSayiSonuc.Items.Clear();
403:             var sb = new StringBuilder();
404:             sb.Append("Olusturulan 6 haneli onay kodu: ");
405:             sb.Append(SayiIslemleri.AltiHaneliOnayKoduOlustur());
406:             lbSayiSonuc.Items.Add(sb.ToString());
407:         }
408:         #endregion
409:
410:         #region Kisi Islemleri
411:         /// <summary>
412:         /// Paneldeki metin kutusuna girilen TC Kimlik numarasinin
413:         /// Standart TC Kimlik No algoritmasina uygun olup olmadigini kontrol eden bir
414:         metottur.
415:         /// </summary>
416:         /// <param name="sender">The sender info (For example Main Form)</param>
417:         /// <param name="e">Event Arguments</param>
418:         private void btnTcKimlikDogrula_Click(object sender, System.EventArgs e)
419:         {
420:             if (string.IsNullOrEmpty(txtKisiMetni.Text.Trim()))
421:                 MessageBox.Show(Sabitler.MetinGirilmedi);
422:             else if (!SayiIslemleri.SayisalMi(txtKisiMetni.Text.Trim()))
423:                 MessageBox.Show(Sabitler.MetinSayisalDegil);
424:             else if (txtKisiMetni.Text.Trim().Length != 11)
425:                 MessageBox.Show(Sabitler.MetinTcKimlikNoDegil);
426:             else
427:             {
428:                 lbKisiSonuc.Items.Clear();
429:                 var sb = new StringBuilder();
430:                 sb.Append("TC Kimlik No Dogru Mu?: ");
431:                 sb.Append(KisiIslemleri.DogrulaTcKimlikNo(txtKisiMetni.Text.Trim()) ?
432:                     "Evet" : "Hayir");
433:                 lbKisiSonuc.Items.Add(sb.ToString());
434:             }
435:
436:         /// <summary>
437:         /// Paneldeki metin kutusuna girilen IBAN Numarasinin
438:         /// Standart IBAN algoritmasina uygun olup olmadigini kontrol eden bir
439:         metottur.
440:         /// </summary>
441:         /// <param name="sender">The sender info (For example Main Form)</param>

```



```

440:         /// <param name="e">Event Arguments</param>
441:         private void btnIbanDogrula_Click(object sender, System.EventArgs e)
442:         {
443:             if (string.IsNullOrEmpty(txtKisiMetni.Text.Trim()))
444:                 MessageBox.Show(Sabitler.MetinGirilmedi);
445:             else if (txtKisiMetni.Text.Trim().Length != 26)
446:                 MessageBox.Show(Sabitler.MetinIbanNoDegil +
txtKisiMetni.Text.Trim().Length);
447:             else
448:             {
449:                 lbKisiSonuc.Items.Clear();
450:                 var sb = new StringBuilder();
451:                 sb.Append("IBAN Dogru Mu?: ");
452:                 sb.Append(KisiIslemleri.DogrulaIBAN(txtKisiMetni.Text.Trim()) ? "Evet"
: "Hayir");
453:                 lbKisiSonuc.Items.Add(sb.ToString());
454:             }
455:         }
456:
457:         /// <summary>
458:         /// Paneldeki metin kutusuna girilen metnin
459:         /// Geçerli bir e-posta adresi olup olmadigini kontrol eden bir metottur.
460:         /// </summary>
461:         /// <param name="sender">The sender info (For example Main Form)</param>
462:         /// <param name="e">Event Arguments</param>
463:         private void btnEPostaDogrula_Click(object sender, System.EventArgs e)
464:         {
465:             if (string.IsNullOrEmpty(txtKisiMetni.Text.Trim()))
466:                 MessageBox.Show(Sabitler.MetinGirilmedi);
467:             else
468:             {
469:                 lbKisiSonuc.Items.Clear();
470:                 var sb = new StringBuilder();
471:                 sb.Append("E-Posta Dogru Mu?: ");
472:                 sb.Append(KisiIslemleri.DogrulaEPosta(txtKisiMetni.Text.Trim()) ?
"Evet" : "Hayir");
473:                 lbKisiSonuc.Items.Add(sb.ToString());
474:             }
475:         }
476:         #endregion
477:
478:         #region Metin Islemleri
479:         /// <summary>
480:         /// Paneldeki metin kutusuna girilen metnin
481:         /// Kelimelerinin ilk harflerini büyük yapmaya yarayan bir metottur.
482:         /// </summary>
483:         /// <param name="sender">The sender info (For example Main Form)</param>
484:         /// <param name="e">Event Arguments</param>
485:         private void btnIlkHarfleriBuyukYap_Click(object sender, System.EventArgs e)
486:         {
487:             if (string.IsNullOrEmpty(txtMetin.Text.Trim()))
488:                 MessageBox.Show(Sabitler.MetinGirilmedi);
489:             else
490:             {
491:                 lbMetinSonuc.Items.Clear();
492:                 var sb = new StringBuilder();
493:                 sb.Append("Metnin Düzenlenmis Hali: ");
494:                 sb.Append(txtMetin.Text.Trim().MetinIlkKarakterleriBuyukYap());
495:                 lbMetinSonuc.Items.Add(sb.ToString());
496:             }
497:         }
498:
499:         /// <summary>
500:         /// Paneldeki metin kutusuna girilen metnin
501:         /// Sadece ilk harfini büyük yapmaya yarayan bir metottur.
502:         /// </summary>
503:         /// <param name="sender">The sender info (For example Main Form)</param>
504:         /// <param name="e">Event Arguments</param>
505:         private void btnIlkHarfiBuyukYap_Click(object sender, System.EventArgs e)

```

```

506:         {
507:             if (string.IsNullOrEmpty(txtMetin.Text.Trim()))
508:                 MessageBox.Show(Sabitler.MetinGirilmedi);
509:             else
510:             {
511:                 lbMetinSonuc.Items.Clear();
512:                 var sb = new StringBuilder();
513:                 sb.Append("Metnin Düzenlenmis Hali: ");
514:                 sb.Append(MetinIslemleri.MetinIlkKarakterBuyukDigerleriKucukYap(txtMetin.Text.Trim()));
515:                 lbMetinSonuc.Items.Add(sb.ToString());
516:             }
517:         }
518:
519:         /// <summary>
520:         /// Paneldeki metin kutusuna girilen metnin
521:         /// İçerisindeki Türkçe karakterleri İngilizce hallerine çeviren bir metottur.
522:         /// </summary>
523:         /// <param name="sender">The sender info (For example Main Form)</param>
524:         /// <param name="e">Event Arguments</param>
525:         private void btnTurkceKarakterDuzelt_Click(object sender, System.EventArgs e)
526:         {
527:             if (string.IsNullOrEmpty(txtMetin.Text.Trim()))
528:                 MessageBox.Show(Sabitler.MetinGirilmedi);
529:             else
530:             {
531:                 lbMetinSonuc.Items.Clear();
532:                 var sb = new StringBuilder();
533:                 sb.Append("Metnin Düzenlenmis Hali: ");
534:                 sb.Append(MetinIslemleri.TurkceKarakterleriDuzelt(txtMetin.Text.Trim()));
535:                 lbMetinSonuc.Items.Add(sb.ToString());
536:             }
537:         }
538:
539:         /// <summary>
540:         /// KVKK durumlarından dolayı TC Kimlik No ve Vergi No gibi alanların
541:         /// Matbu çıktılarda gizlenmesi gibi bir durum söz konusu olduğundan
542:         /// Girilen bu 10 veya 11 karakterlik metinleri sifrelemeye yarayan bir
543:         /// metottur
544:         /// </summary>
545:         /// <param name="sender">The sender info (For example Main Form)</param>
546:         /// <param name="e">Event Arguments</param>
547:         private void btnMetinSifrele_Click(object sender, System.EventArgs e)
548:         {
549:             if (string.IsNullOrEmpty(txtMetin.Text.Trim()))
550:                 MessageBox.Show(Sabitler.MetinGirilmedi);
551:             else if (!SayiIslemleri.SayisalMi(txtMetin.Text.Trim()))
552:                 MessageBox.Show(Sabitler.MetinSayisalDegil);
553:             else if (txtMetin.Text.Trim().Length != 11 && txtMetin.Text.Trim().Length
554:                 != 10)
555:                 MessageBox.Show(Sabitler.MetinTcKimlikNoVeyaVergiNoDegil);
556:             else
557:             {
558:                 lbMetinSonuc.Items.Clear();
559:                 var sb = new StringBuilder();
560:                 sb.Append("TC Kimlik No veya Vergi No'nun Sifrelenmis Hali: ");
561:                 sb.Append(MetinIslemleri.MetinSifrele(txtMetin.Text.Trim()));
562:                 lbMetinSonuc.Items.Add(sb.ToString());
563:             }
564:         }
565:         /// <summary>
566:         /// Ekrandan çeşitli karakterler içeren telefon numaraları alındığı zaman
567:         /// Bu telefon numarasını olması gerektiği hale çevirmeye yarayan bir metottur.
568:         /// </summary>
569:         /// <param name="sender">The sender info (For example Main Form)</param>
570:         /// <param name="e">Event Arguments</param>
571:         private void btnTelefonNoDuzenle_Click(object sender, System.EventArgs e)

```

```

571:         {
572:             if (string.IsNullOrEmpty(txtMetin.Text.Trim()))
573:                 MessageBox.Show(Sabitler.MetinGirilmedi);
574:             else
575:             {
576:                 lbMetinSonuc.Items.Clear();
577:                 var sb = new StringBuilder();
578:                 sb.Append("Telefon Numarasinin Düzenlenmis Hali: ");
579:                 sb.Append(MetinIslemleri.TelefonNoDuzenle(txtMetin.Text.Trim()));
580:                 lbMetinSonuc.Items.Add(sb.ToString());
581:             }
582:         }
583:     #endregion
584: }
585: }

```

Namespaces

Name	Description
CSharpHelperMethods (see page 1)	This is namespace CSharpHelperMethods.

1.2.7 FrmAnaSayfa.Designer.cs

This is file FrmAnaSayfa.Designer.cs.

Body Source

```

1: ?namespace CSharpHelperMethods
2: {
3:     partial class FrmAnaSayfa
4:     {
5:         /// <summary>
6:         /// Required designer variable.
7:         /// </summary>
8:         private System.ComponentModel.IContainer components = null;
9:
10:        /// <summary>
11:        /// Clean up any resources being used.
12:        /// </summary>
13:        /// <param name="disposing">true if managed resources should be disposed;
otherwise, false.</param>
14:        protected override void Dispose(bool disposing)
15:        {
16:            if (disposing && (components != null))
17:            {
18:                components.Dispose();
19:            }
20:            base.Dispose(disposing);
21:        }
22:
23:        #region Windows Form Designer generated code
24:
25:        /// <summary>
26:        /// Required method for Designer support - do not modify
27:        /// the contents of this method with the code editor.
28:        /// </summary>
29:        private void InitializeComponent()
30:        {
31:            this.cmbIslemTuru = new System.Windows.Forms.ComboBox();
32:            this.labell = new System.Windows.Forms.Label();
33:            this.pnlTarihIslemleri = new System.Windows.Forms.Panel();
34:            this.btnAyFarki = new System.Windows.Forms.Button();
35:            this.label8 = new System.Windows.Forms.Label();
36:            this.btnTarihAraligi = new System.Windows.Forms.Button();
37:            this.btnYasHesaplaMetinsel = new System.Windows.Forms.Button();

```

```

38:         this.btnYasHesapla = new System.Windows.Forms.Button();
39:         this.label4 = new System.Windows.Forms.Label();
40:         this.lbSonuc = new System.Windows.Forms.ListBox();
41:         this.dtpBitisTarihi = new System.Windows.Forms.DateTimePicker();
42:         this.dtpBaslangicTarihi = new System.Windows.Forms.DateTimePicker();
43:         this.label3 = new System.Windows.Forms.Label();
44:         this.label2 = new System.Windows.Forms.Label();
45:         this.pnlSifreIslemleri = new System.Windows.Forms.Panel();
46:         this.label7 = new System.Windows.Forms.Label();
47:         this.btnSifreUygunMu = new System.Windows.Forms.Button();
48:         this.btnRastgeleSifreUret = new System.Windows.Forms.Button();
49:         this.btnSha512Hash = new System.Windows.Forms.Button();
50:         this.btnSha256Hash = new System.Windows.Forms.Button();
51:         this.label6 = new System.Windows.Forms.Label();
52:         this.lbSifreSonuc = new System.Windows.Forms.ListBox();
53:         this.btnMd5Hash = new System.Windows.Forms.Button();
54:         this.txtSifrelenecekMetin = new System.Windows.Forms.TextBox();
55:         this.label5 = new System.Windows.Forms.Label();
56:         this.pnlSayiIslemleri = new System.Windows.Forms.Panel();
57:         this.label9 = new System.Windows.Forms.Label();
58:         this.btnOnayKoduOlustur = new System.Windows.Forms.Button();
59:         this.btnMetneDonustur = new System.Windows.Forms.Button();
60:         this.label10 = new System.Windows.Forms.Label();
61:         this.lbSayiSonuc = new System.Windows.Forms.ListBox();
62:         this.btnSayisalMi = new System.Windows.Forms.Button();
63:         this.txtSayi = new System.Windows.Forms.TextBox();
64:         this.label11 = new System.Windows.Forms.Label();
65:         this.pnlKisiIslemleri = new System.Windows.Forms.Panel();
66:         this.label12 = new System.Windows.Forms.Label();
67:         this.btnEPostaDogrula = new System.Windows.Forms.Button();
68:         this.btnIbanDogrula = new System.Windows.Forms.Button();
69:         this.label13 = new System.Windows.Forms.Label();
70:         this.lbKisiSonuc = new System.Windows.Forms.ListBox();
71:         this.btnTcKimlikDogrula = new System.Windows.Forms.Button();
72:         this.txtKisiMetni = new System.Windows.Forms.TextBox();
73:         this.label14 = new System.Windows.Forms.Label();
74:         this.pnlMetinIslemleri = new System.Windows.Forms.Panel();
75:         this.btnTelefonNoDuzenle = new System.Windows.Forms.Button();
76:         this.btnMetinSifrele = new System.Windows.Forms.Button();
77:         this.label15 = new System.Windows.Forms.Label();
78:         this.btnTurkceKarakterDuzelt = new System.Windows.Forms.Button();
79:         this.btnIlkHarfiBuyukYap = new System.Windows.Forms.Button();
80:         this.label16 = new System.Windows.Forms.Label();
81:         this.lbMetinSonuc = new System.Windows.Forms.ListBox();
82:         this.btnIlkHarfleriBuyukYap = new System.Windows.Forms.Button();
83:         this.txtMetin = new System.Windows.Forms.TextBox();
84:         this.label17 = new System.Windows.Forms.Label();
85:         this.pnlTarihIslemleri.SuspendLayout();
86:         this.pnlSifreIslemleri.SuspendLayout();
87:         this.pnlSayiIslemleri.SuspendLayout();
88:         this.pnlKisiIslemleri.SuspendLayout();
89:         this.pnlMetinIslemleri.SuspendLayout();
90:         this.SuspendLayout();
91:         //
92:         // cmbIslemTuru
93:         //
94:         this.cmbIslemTuru.FormattingEnabled = true;
95:         this.cmbIslemTuru.Items.AddRange(new object[] { "Metin Islemleri", "Tarih
Islemleri", "Sayi Islemleri", "Sifre Islemleri", "Kisi Islemleri" });
96:         this.cmbIslemTuru.Location = new System.Drawing.Point(132, 13);
97:         this.cmbIslemTuru.Name = "cmbIslemTuru";
98:         this.cmbIslemTuru.Size = new System.Drawing.Size(200, 21);
99:         this.cmbIslemTuru.TabIndex = 0;
100:        this.cmbIslemTuru.SelectedIndexChanged += new
System.EventHandler(this.cmbIslemTuru_SelectedIndexChanged);
101:        //
102:        // label1
103:        //
104:        this.label1.AutoSize = true;

```

```

105:         this.label1.Location = new System.Drawing.Point(12, 16);
106:         this.label1.Name = "label1";
107:         this.label1.Size = new System.Drawing.Size(93, 13);
108:         this.label1.TabIndex = 1;
109:         this.label1.Text = "Islem Türü Seçiniz";
110:         //
111:         // pnlTarihIslemleri
112:         //
113:         this.pnlTarihIslemleri.BorderStyle =
System.Windows.Forms.BorderStyle.FixedSingle;
114:         this.pnlTarihIslemleri.Controls.Add(this.btnAyFarki);
115:         this.pnlTarihIslemleri.Controls.Add(this.label8);
116:         this.pnlTarihIslemleri.Controls.Add(this.btnTarihAraligi);
117:         this.pnlTarihIslemleri.Controls.Add(this.btnYasHesaplaMetinsel);
118:         this.pnlTarihIslemleri.Controls.Add(this.btnYasHesapla);
119:         this.pnlTarihIslemleri.Controls.Add(this.label4);
120:         this.pnlTarihIslemleri.Controls.Add(this.lbSonuc);
121:         this.pnlTarihIslemleri.Controls.Add(this.dtpBitisTarihi);
122:         this.pnlTarihIslemleri.Controls.Add(this.dtpBaslangicTarihi);
123:         this.pnlTarihIslemleri.Controls.Add(this.label3);
124:         this.pnlTarihIslemleri.Controls.Add(this.label2);
125:         this.pnlTarihIslemleri.Location = new System.Drawing.Point(15, 56);
126:         this.pnlTarihIslemleri.Name = "pnlTarihIslemleri";
127:         this.pnlTarihIslemleri.Size = new System.Drawing.Size(374, 181);
128:         this.pnlTarihIslemleri.TabIndex = 2;
129:         //
130:         // btnAyFarki
131:         //
132:         this.btnAyFarki.Location = new System.Drawing.Point(286, 76);
133:         this.btnAyFarki.Name = "btnAyFarki";
134:         this.btnAyFarki.Size = new System.Drawing.Size(79, 23);
135:         this.btnAyFarki.TabIndex = 12;
136:         this.btnAyFarki.Text = "Ay Farki";
137:         this.btnAyFarki.UseVisualStyleBackColor = true;
138:         this.btnAyFarki.Click += new System.EventHandler(this.btnAyFarki_Click);
139:         //
140:         // label8
141:         //
142:         this.label8.AutoSize = true;
143:         this.label8.Dock = System.Windows.Forms.DockStyle.Top;
144:         this.label8.Location = new System.Drawing.Point(0, 0);
145:         this.label8.Name = "label8";
146:         this.label8.Size = new System.Drawing.Size(71, 13);
147:         this.label8.TabIndex = 11;
148:         this.label8.Text = "Tarih Islemleri";
149:         //
150:         // btnTarihAraligi
151:         //
152:         this.btnTarihAraligi.Location = new System.Drawing.Point(204, 76);
153:         this.btnTarihAraligi.Name = "btnTarihAraligi";
154:         this.btnTarihAraligi.Size = new System.Drawing.Size(76, 23);
155:         this.btnTarihAraligi.TabIndex = 10;
156:         this.btnTarihAraligi.Text = "Tarih Araligi";
157:         this.btnTarihAraligi.UseVisualStyleBackColor = true;
158:         this.btnTarihAraligi.Click += new
System.EventHandler(this.btnTarihAraligi_Click);
159:         //
160:         // btnYasHesaplaMetinsel
161:         //
162:         this.btnYasHesaplaMetinsel.Location = new System.Drawing.Point(84, 76);
163:         this.btnYasHesaplaMetinsel.Name = "btnYasHesaplaMetinsel";
164:         this.btnYasHesaplaMetinsel.Size = new System.Drawing.Size(113, 23);
165:         this.btnYasHesaplaMetinsel.TabIndex = 9;
166:         this.btnYasHesaplaMetinsel.Text = "Yas Hesapla (Metin)";
167:         this.btnYasHesaplaMetinsel.UseVisualStyleBackColor = true;
168:         this.btnYasHesaplaMetinsel.Click += new
System.EventHandler(this.btnYasHesaplaMetinsel_Click);
169:         //
170:         // btnYasHesapla

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171:         //
172:         this.btnYasHesapla.Location = new System.Drawing.Point(3, 76);
173:         this.btnYasHesapla.Name = "btnYasHesapla";
174:         this.btnYasHesapla.Size = new System.Drawing.Size(75, 23);
175:         this.btnYasHesapla.TabIndex = 8;
176:         this.btnYasHesapla.Text = "Yas Hesapla";
177:         this.btnYasHesapla.UseVisualStyleBackColor = true;
178:         this.btnYasHesapla.Click += new
System.EventHandler(this.btnYasHesapla_Click);
179:         //
180:         // label4
181:         //
182:         this.label4.AutoSize = true;
183:         this.label4.Location = new System.Drawing.Point(18, 109);
184:         this.label4.Name = "label4";
185:         this.label4.Size = new System.Drawing.Size(38, 13);
186:         this.label4.TabIndex = 7;
187:         this.label4.Text = "Sonuç";
188:         //
189:         // lbSonuc
190:         //
191:         this.lbSonuc.FormattingEnabled = true;
192:         this.lbSonuc.HorizontalScrollbar = true;
193:         this.lbSonuc.Location = new System.Drawing.Point(62, 105);
194:         this.lbSonuc.Name = "lbSonuc";
195:         this.lbSonuc.Size = new System.Drawing.Size(256, 69);
196:         this.lbSonuc.TabIndex = 6;
197:         //
198:         // dtpBitisTarihi
199:         //
200:         this.dtpBitisTarihi.Format =
System.Windows.Forms.DateTimePickerFormat.Short;
201:         this.dtpBitisTarihi.Location = new System.Drawing.Point(117, 43);
202:         this.dtpBitisTarihi.Name = "dtpBitisTarihi";
203:         this.dtpBitisTarihi.ShowCheckBox = true;
204:         this.dtpBitisTarihi.Size = new System.Drawing.Size(200, 20);
205:         this.dtpBitisTarihi.TabIndex = 5;
206:         //
207:         // dtpBaslangicTarihi
208:         //
209:         this.dtpBaslangicTarihi.Format =
System.Windows.Forms.DateTimePickerFormat.Short;
210:         this.dtpBaslangicTarihi.Location = new System.Drawing.Point(117, 17);
211:         this.dtpBaslangicTarihi.Name = "dtpBaslangicTarihi";
212:         this.dtpBaslangicTarihi.ShowCheckBox = true;
213:         this.dtpBaslangicTarihi.Size = new System.Drawing.Size(200, 20);
214:         this.dtpBaslangicTarihi.TabIndex = 4;
215:         //
216:         // label3
217:         //
218:         this.label3.AutoSize = true;
219:         this.label3.Location = new System.Drawing.Point(44, 47);
220:         this.label3.Name = "label3";
221:         this.label3.Size = new System.Drawing.Size(55, 13);
222:         this.label3.TabIndex = 3;
223:         this.label3.Text = "Bitis Tarihi";
224:         //
225:         // label2
226:         //
227:         this.label2.AutoSize = true;
228:         this.label2.Location = new System.Drawing.Point(17, 24);
229:         this.label2.Name = "label2";
230:         this.label2.Size = new System.Drawing.Size(82, 13);
231:         this.label2.TabIndex = 2;
232:         this.label2.Text = "Baslangic Tarihi";
233:         //
234:         // pnlSifreIslemleri
235:         //
236:         this.pnlSifreIslemleri.BorderStyle =

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System.Windows.Forms.BorderStyle.FixedSingle;
237:         this.pnlSifreIslemleri.Controls.Add(this.label7);
238:         this.pnlSifreIslemleri.Controls.Add(this.btnSifreUygunMu);
239:         this.pnlSifreIslemleri.Controls.Add(this.btnRastgeleSifreUret);
240:         this.pnlSifreIslemleri.Controls.Add(this.btnSha512Hash);
241:         this.pnlSifreIslemleri.Controls.Add(this.btnSha256Hash);
242:         this.pnlSifreIslemleri.Controls.Add(this.label6);
243:         this.pnlSifreIslemleri.Controls.Add(this.lbSifreSonuc);
244:         this.pnlSifreIslemleri.Controls.Add(this.btnMd5Hash);
245:         this.pnlSifreIslemleri.Controls.Add(this.txtSifrelenecekMetin);
246:         this.pnlSifreIslemleri.Controls.Add(this.label5);
247:         this.pnlSifreIslemleri.Location = new System.Drawing.Point(411, 56);
248:         this.pnlSifreIslemleri.Name = "pnlSifreIslemleri";
249:         this.pnlSifreIslemleri.Size = new System.Drawing.Size(377, 181);
250:         this.pnlSifreIslemleri.TabIndex = 3;
251:         //
252:         // label7
253:         //
254:         this.label7.AutoSize = true;
255:         this.label7.Dock = System.Windows.Forms.DockStyle.Top;
256:         this.label7.Location = new System.Drawing.Point(0, 0);
257:         this.label7.Name = "label7";
258:         this.label7.Size = new System.Drawing.Size(68, 13);
259:         this.label7.TabIndex = 18;
260:         this.label7.Text = "Sifre Islemleri";
261:         this.label7.TextAlign = System.Drawing.ContentAlignment.TopCenter;
262:         //
263:         // btnSifreUygunMu
264:         //
265:         this.btnSifreUygunMu.Location = new System.Drawing.Point(173, 71);
266:         this.btnSifreUygunMu.Name = "btnSifreUygunMu";
267:         this.btnSifreUygunMu.Size = new System.Drawing.Size(145, 23);
268:         this.btnSifreUygunMu.TabIndex = 17;
269:         this.btnSifreUygunMu.Text = "Sifre Uygun Mu?";
270:         this.btnSifreUygunMu.UseVisualStyleBackColor = true;
271:         this.btnSifreUygunMu.Click += new
System.EventHandler(this.btnSifreUygunMu_Click);
272:         //
273:         // btnRastgeleSifreUret
274:         //
275:         this.btnRastgeleSifreUret.Location = new System.Drawing.Point(21, 71);
276:         this.btnRastgeleSifreUret.Name = "btnRastgeleSifreUret";
277:         this.btnRastgeleSifreUret.Size = new System.Drawing.Size(145, 23);
278:         this.btnRastgeleSifreUret.TabIndex = 16;
279:         this.btnRastgeleSifreUret.Text = "Rastgele Sifre Üret";
280:         this.btnRastgeleSifreUret.UseVisualStyleBackColor = true;
281:         this.btnRastgeleSifreUret.Click += new
System.EventHandler(this.btnRastgeleSifreUret_Click);
282:         //
283:         // btnSha512Hash
284:         //
285:         this.btnSha512Hash.Location = new System.Drawing.Point(243, 42);
286:         this.btnSha512Hash.Name = "btnSha512Hash";
287:         this.btnSha512Hash.Size = new System.Drawing.Size(75, 23);
288:         this.btnSha512Hash.TabIndex = 15;
289:         this.btnSha512Hash.Text = "SHA 512";
290:         this.btnSha512Hash.UseVisualStyleBackColor = true;
291:         this.btnSha512Hash.Click += new
System.EventHandler(this.btnSha512Hash_Click);
292:         //
293:         // btnSha256Hash
294:         //
295:         this.btnSha256Hash.Location = new System.Drawing.Point(131, 42);
296:         this.btnSha256Hash.Name = "btnSha256Hash";
297:         this.btnSha256Hash.Size = new System.Drawing.Size(75, 23);
298:         this.btnSha256Hash.TabIndex = 14;
299:         this.btnSha256Hash.Text = "SHA 256";
300:         this.btnSha256Hash.UseVisualStyleBackColor = true;
301:         this.btnSha256Hash.Click += new

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System.EventHandler(this.btnSha256Hash_Click);
302:         //
303:         // label6
304:         //
305:         this.label6.AutoSize = true;
306:         this.label6.Location = new System.Drawing.Point(21, 100);
307:         this.label6.Name = "label6";
308:         this.label6.Size = new System.Drawing.Size(38, 13);
309:         this.label6.TabIndex = 13;
310:         this.label6.Text = "Sonuç";
311:         //
312:         // lbSifreSonuc
313:         //
314:         this.lbSifreSonuc.FormattingEnabled = true;
315:         this.lbSifreSonuc.HorizontalScrollbar = true;
316:         this.lbSifreSonuc.Location = new System.Drawing.Point(65, 100);
317:         this.lbSifreSonuc.Name = "lbSifreSonuc";
318:         this.lbSifreSonuc.Size = new System.Drawing.Size(251, 69);
319:         this.lbSifreSonuc.TabIndex = 12;
320:         //
321:         // btnMd5Hash
322:         //
323:         this.btnMd5Hash.Location = new System.Drawing.Point(21, 42);
324:         this.btnMd5Hash.Name = "btnMd5Hash";
325:         this.btnMd5Hash.Size = new System.Drawing.Size(75, 23);
326:         this.btnMd5Hash.TabIndex = 11;
327:         this.btnMd5Hash.Text = "MD5";
328:         this.btnMd5Hash.UseVisualStyleBackColor = true;
329:         this.btnMd5Hash.Click += new System.EventHandler(this.btnMd5Hash_Click);
330:         //
331:         // txtSifrelenecekMetin
332:         //
333:         this.txtSifrelenecekMetin.Location = new System.Drawing.Point(118, 16);
334:         this.txtSifrelenecekMetin.Name = "txtSifrelenecekMetin";
335:         this.txtSifrelenecekMetin.Size = new System.Drawing.Size(199, 20);
336:         this.txtSifrelenecekMetin.TabIndex = 4;
337:         //
338:         // label5
339:         //
340:         this.label5.AutoSize = true;
341:         this.label5.Location = new System.Drawing.Point(17, 19);
342:         this.label5.Name = "label5";
343:         this.label5.Size = new System.Drawing.Size(95, 13);
344:         this.label5.TabIndex = 3;
345:         this.label5.Text = "Sifrelenecek Metin";
346:         //
347:         // pnlSayiIslemleri
348:         //
349:         this.pnlSayiIslemleri.BorderStyle =
System.Windows.Forms.BorderStyle.FixedSingle;
350:         this.pnlSayiIslemleri.Controls.Add(this.label9);
351:         this.pnlSayiIslemleri.Controls.Add(this.btnOnayKoduOlustur);
352:         this.pnlSayiIslemleri.Controls.Add(this.btnMetneDonustur);
353:         this.pnlSayiIslemleri.Controls.Add(this.label10);
354:         this.pnlSayiIslemleri.Controls.Add(this.lbSayiSonuc);
355:         this.pnlSayiIslemleri.Controls.Add(this.btnSayisalMi);
356:         this.pnlSayiIslemleri.Controls.Add(this.txtSayi);
357:         this.pnlSayiIslemleri.Controls.Add(this.label11);
358:         this.pnlSayiIslemleri.Location = new System.Drawing.Point(15, 257);
359:         this.pnlSayiIslemleri.Name = "pnlSayiIslemleri";
360:         this.pnlSayiIslemleri.Size = new System.Drawing.Size(377, 181);
361:         this.pnlSayiIslemleri.TabIndex = 19;
362:         //
363:         // label9
364:         //
365:         this.label9.AutoSize = true;
366:         this.label9.Dock = System.Windows.Forms.DockStyle.Top;
367:         this.label9.Location = new System.Drawing.Point(0, 0);
368:         this.label9.Name = "label9";

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369:         this.label9.Size = new System.Drawing.Size(67, 13);
370:         this.label9.TabIndex = 18;
371:         this.label9.Text = "Sayi Islemleri";
372:         this.label9.TextAlign = System.Drawing.ContentAlignment.TopCenter;
373:         //
374:         // btnOnayKoduOlustur
375:         //
376:         this.btnOnayKoduOlustur.Location = new System.Drawing.Point(243, 42);
377:         this.btnOnayKoduOlustur.Name = "btnOnayKoduOlustur";
378:         this.btnOnayKoduOlustur.Size = new System.Drawing.Size(75, 23);
379:         this.btnOnayKoduOlustur.TabIndex = 15;
380:         this.btnOnayKoduOlustur.Text = "Onay Kodu";
381:         this.btnOnayKoduOlustur.UseVisualStyleBackColor = true;
382:         this.btnOnayKoduOlustur.Click += new
System.EventHandler(this.btnOnayKoduOlustur_Click);
383:         //
384:         // btnMetneDonustur
385:         //
386:         this.btnMetneDonustur.Location = new System.Drawing.Point(102, 42);
387:         this.btnMetneDonustur.Name = "btnMetneDonustur";
388:         this.btnMetneDonustur.Size = new System.Drawing.Size(135, 23);
389:         this.btnMetneDonustur.TabIndex = 14;
390:         this.btnMetneDonustur.Text = "Para Metnine Dönüştür";
391:         this.btnMetneDonustur.UseVisualStyleBackColor = true;
392:         this.btnMetneDonustur.Click += new
System.EventHandler(this.btnMetneDonustur_Click);
393:         //
394:         // label10
395:         //
396:         this.label10.AutoSize = true;
397:         this.label10.Location = new System.Drawing.Point(18, 78);
398:         this.label10.Name = "label10";
399:         this.label10.Size = new System.Drawing.Size(38, 13);
400:         this.label10.TabIndex = 13;
401:         this.label10.Text = "Sonuç";
402:         //
403:         // lbSayiSonuc
404:         //
405:         this.lbSayiSonuc.FormattingEnabled = true;
406:         this.lbSayiSonuc.HorizontalScrollbar = true;
407:         this.lbSayiSonuc.Location = new System.Drawing.Point(62, 78);
408:         this.lbSayiSonuc.Name = "lbSayiSonuc";
409:         this.lbSayiSonuc.Size = new System.Drawing.Size(254, 82);
410:         this.lbSayiSonuc.TabIndex = 12;
411:         //
412:         // btnSayisalMi
413:         //
414:         this.btnSayisalMi.Location = new System.Drawing.Point(21, 42);
415:         this.btnSayisalMi.Name = "btnSayisalMi";
416:         this.btnSayisalMi.Size = new System.Drawing.Size(75, 23);
417:         this.btnSayisalMi.TabIndex = 11;
418:         this.btnSayisalMi.Text = "Sayisal Mi?";
419:         this.btnSayisalMi.UseVisualStyleBackColor = true;
420:         this.btnSayisalMi.Click += new
System.EventHandler(this.btnSayisalMi_Click);
421:         //
422:         // txtSayi
423:         //
424:         this.txtSayi.Location = new System.Drawing.Point(118, 16);
425:         this.txtSayi.Name = "txtSayi";
426:         this.txtSayi.Size = new System.Drawing.Size(199, 20);
427:         this.txtSayi.TabIndex = 4;
428:         //
429:         // label11
430:         //
431:         this.label11.AutoSize = true;
432:         this.label11.Location = new System.Drawing.Point(17, 19);
433:         this.label11.Name = "label11";
434:         this.label11.Size = new System.Drawing.Size(95, 13);

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435:         this.label11.TabIndex = 3;
436:         this.label11.Text = "Sifrelenecek Metin";
437:         //
438:         // pnlKisiIslemleri
439:         //
440:         this.pnlKisiIslemleri.BorderStyle =
System.Windows.Forms.BorderStyle.FixedSingle;
441:         this.pnlKisiIslemleri.Controls.Add(this.label12);
442:         this.pnlKisiIslemleri.Controls.Add(this.btnEPostaDogrula);
443:         this.pnlKisiIslemleri.Controls.Add(this.btnIbanDogrula);
444:         this.pnlKisiIslemleri.Controls.Add(this.label13);
445:         this.pnlKisiIslemleri.Controls.Add(this.lbKisiSonuc);
446:         this.pnlKisiIslemleri.Controls.Add(this.btnTcKimlikDogrula);
447:         this.pnlKisiIslemleri.Controls.Add(this.txtKisiMetni);
448:         this.pnlKisiIslemleri.Controls.Add(this.label14);
449:         this.pnlKisiIslemleri.Location = new System.Drawing.Point(411, 257);
450:         this.pnlKisiIslemleri.Name = "pnlKisiIslemleri";
451:         this.pnlKisiIslemleri.Size = new System.Drawing.Size(377, 181);
452:         this.pnlKisiIslemleri.TabIndex = 20;
453:         //
454:         // label12
455:         //
456:         this.label12.AutoSize = true;
457:         this.label12.Dock = System.Windows.Forms.DockStyle.Top;
458:         this.label12.Location = new System.Drawing.Point(0, 0);
459:         this.label12.Name = "label12";
460:         this.label12.Size = new System.Drawing.Size(63, 13);
461:         this.label12.TabIndex = 18;
462:         this.label12.Text = "Kisi Islemleri";
463:         this.label12.TextAlign = System.Drawing.ContentAlignment.TopCenter;
464:         //
465:         // btnEPostaDogrula
466:         //
467:         this.btnEPostaDogrula.Location = new System.Drawing.Point(223, 42);
468:         this.btnEPostaDogrula.Name = "btnEPostaDogrula";
469:         this.btnEPostaDogrula.Size = new System.Drawing.Size(95, 23);
470:         this.btnEPostaDogrula.TabIndex = 15;
471:         this.btnEPostaDogrula.Text = "E-Posta Dogrula";
472:         this.btnEPostaDogrula.UseVisualStyleBackColor = true;
473:         this.btnEPostaDogrula.Click += new
System.EventHandler(this.btnEPostaDogrula_Click);
474:         //
475:         // btnIbanDogrula
476:         //
477:         this.btnIbanDogrula.Location = new System.Drawing.Point(131, 42);
478:         this.btnIbanDogrula.Name = "btnIbanDogrula";
479:         this.btnIbanDogrula.Size = new System.Drawing.Size(86, 23);
480:         this.btnIbanDogrula.TabIndex = 14;
481:         this.btnIbanDogrula.Text = "IBAN Dogrula";
482:         this.btnIbanDogrula.UseVisualStyleBackColor = true;
483:         this.btnIbanDogrula.Click += new
System.EventHandler(this.btnIbanDogrula_Click);
484:         //
485:         // label13
486:         //
487:         this.label13.AutoSize = true;
488:         this.label13.Location = new System.Drawing.Point(18, 78);
489:         this.label13.Name = "label13";
490:         this.label13.Size = new System.Drawing.Size(38, 13);
491:         this.label13.TabIndex = 13;
492:         this.label13.Text = "Sonuç";
493:         //
494:         // lbKisiSonuc
495:         //
496:         this.lbKisiSonuc.FormattingEnabled = true;
497:         this.lbKisiSonuc.HorizontalScrollbar = true;
498:         this.lbKisiSonuc.Location = new System.Drawing.Point(62, 78);
499:         this.lbKisiSonuc.Name = "lbKisiSonuc";
500:         this.lbKisiSonuc.Size = new System.Drawing.Size(254, 82);

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501:         this.lbKisiSonuc.TabIndex = 12;
502:         //
503:         // btnTcKimlikDogrula
504:         //
505:         this.btnTcKimlikDogrula.Location = new System.Drawing.Point(21, 42);
506:         this.btnTcKimlikDogrula.Name = "btnTcKimlikDogrula";
507:         this.btnTcKimlikDogrula.Size = new System.Drawing.Size(104, 23);
508:         this.btnTcKimlikDogrula.TabIndex = 11;
509:         this.btnTcKimlikDogrula.Text = "TC Kimlik Dogrula";
510:         this.btnTcKimlikDogrula.UseVisualStyleBackColor = true;
511:         this.btnTcKimlikDogrula.Click += new
System.EventHandler(this.btnTcKimlikDogrula_Click);
512:         //
513:         // txtKisiMetni
514:         //
515:         this.txtKisiMetni.Location = new System.Drawing.Point(118, 16);
516:         this.txtKisiMetni.Name = "txtKisiMetni";
517:         this.txtKisiMetni.Size = new System.Drawing.Size(199, 20);
518:         this.txtKisiMetni.TabIndex = 4;
519:         //
520:         // label14
521:         //
522:         this.label14.AutoSize = true;
523:         this.label14.Location = new System.Drawing.Point(17, 19);
524:         this.label14.Name = "label14";
525:         this.label14.Size = new System.Drawing.Size(33, 13);
526:         this.label14.TabIndex = 3;
527:         this.label14.Text = "Metin";
528:         //
529:         // pnlMetinIslemleri
530:         //
531:         this.pnlMetinIslemleri.BorderStyle =
System.Windows.Forms.BorderStyle.FixedSingle;
532:         this.pnlMetinIslemleri.Controls.Add(this.btnTelefonNoDuzenle);
533:         this.pnlMetinIslemleri.Controls.Add(this.btnMetinSifrele);
534:         this.pnlMetinIslemleri.Controls.Add(this.label15);
535:         this.pnlMetinIslemleri.Controls.Add(this.btnTurkceKarakterDuzelt);
536:         this.pnlMetinIslemleri.Controls.Add(this.btnIlkHarfiBuyukYap);
537:         this.pnlMetinIslemleri.Controls.Add(this.label16);
538:         this.pnlMetinIslemleri.Controls.Add(this.lbMetinSonuc);
539:         this.pnlMetinIslemleri.Controls.Add(this.btnIlkHarfleriBuyukYap);
540:         this.pnlMetinIslemleri.Controls.Add(this.txtMetin);
541:         this.pnlMetinIslemleri.Controls.Add(this.label17);
542:         this.pnlMetinIslemleri.Location = new System.Drawing.Point(15, 458);
543:         this.pnlMetinIslemleri.Name = "pnlMetinIslemleri";
544:         this.pnlMetinIslemleri.Size = new System.Drawing.Size(773, 181);
545:         this.pnlMetinIslemleri.TabIndex = 21;
546:         //
547:         // btnTelefonNoDuzenle
548:         //
549:         this.btnTelefonNoDuzenle.Location = new System.Drawing.Point(503, 42);
550:         this.btnTelefonNoDuzenle.Name = "btnTelefonNoDuzenle";
551:         this.btnTelefonNoDuzenle.Size = new System.Drawing.Size(134, 23);
552:         this.btnTelefonNoDuzenle.TabIndex = 20;
553:         this.btnTelefonNoDuzenle.Text = "Telefon No Düzenle";
554:         this.btnTelefonNoDuzenle.UseVisualStyleBackColor = true;
555:         this.btnTelefonNoDuzenle.Click += new
System.EventHandler(this.btnTelefonNoDuzenle_Click);
556:         //
557:         // btnMetinSifrele
558:         //
559:         this.btnMetinSifrele.Location = new System.Drawing.Point(363, 42);
560:         this.btnMetinSifrele.Name = "btnMetinSifrele";
561:         this.btnMetinSifrele.Size = new System.Drawing.Size(134, 23);
562:         this.btnMetinSifrele.TabIndex = 19;
563:         this.btnMetinSifrele.Text = "Metin Sifrele";
564:         this.btnMetinSifrele.UseVisualStyleBackColor = true;
565:         this.btnMetinSifrele.Click += new
System.EventHandler(this.btnMetinSifrele_Click);

```

```
566:         //
567:         // label15
568:         //
569:         this.label15.AutoSize = true;
570:         this.label15.Dock = System.Windows.Forms.DockStyle.Top;
571:         this.label15.Location = new System.Drawing.Point(0, 0);
572:         this.label15.Name = "label15";
573:         this.label15.Size = new System.Drawing.Size(73, 13);
574:         this.label15.TabIndex = 18;
575:         this.label15.Text = "Metin Islemleri";
576:         this.label15.TextAlign = System.Drawing.ContentAlignment.TopCenter;
577:         //
578:         // btnTurkceKarakterDuzelt
579:         //
580:         this.btnTurkceKarakterDuzelt.Location = new System.Drawing.Point(223, 42);
581:         this.btnTurkceKarakterDuzelt.Name = "btnTurkceKarakterDuzelt";
582:         this.btnTurkceKarakterDuzelt.Size = new System.Drawing.Size(134, 23);
583:         this.btnTurkceKarakterDuzelt.TabIndex = 15;
584:         this.btnTurkceKarakterDuzelt.Text = "Türkçe Karakter Düzelt";
585:         this.btnTurkceKarakterDuzelt.UseVisualStyleBackColor = true;
586:         this.btnTurkceKarakterDuzelt.Click += new
System.EventHandler(this.btnTurkceKarakterDuzelt_Click);
587:         //
588:         // btnIlkHarfiBuyukYap
589:         //
590:         this.btnIlkHarfiBuyukYap.Location = new System.Drawing.Point(131, 42);
591:         this.btnIlkHarfiBuyukYap.Name = "btnIlkHarfiBuyukYap";
592:         this.btnIlkHarfiBuyukYap.Size = new System.Drawing.Size(86, 23);
593:         this.btnIlkHarfiBuyukYap.TabIndex = 14;
594:         this.btnIlkHarfiBuyukYap.Text = "Ilk Harf Büyük";
595:         this.btnIlkHarfiBuyukYap.UseVisualStyleBackColor = true;
596:         this.btnIlkHarfiBuyukYap.Click += new
System.EventHandler(this.btnIlkHarfiBuyukYap_Click);
597:         //
598:         // label16
599:         //
600:         this.label16.AutoSize = true;
601:         this.label16.Location = new System.Drawing.Point(18, 78);
602:         this.label16.Name = "label16";
603:         this.label16.Size = new System.Drawing.Size(38, 13);
604:         this.label16.TabIndex = 13;
605:         this.label16.Text = "Sonuç";
606:         //
607:         // lbMetinSonuc
608:         //
609:         this.lbMetinSonuc.FormattingEnabled = true;
610:         this.lbMetinSonuc.HorizontalScrollbar = true;
611:         this.lbMetinSonuc.Location = new System.Drawing.Point(62, 78);
612:         this.lbMetinSonuc.Name = "lbMetinSonuc";
613:         this.lbMetinSonuc.Size = new System.Drawing.Size(652, 82);
614:         this.lbMetinSonuc.TabIndex = 12;
615:         //
616:         // btnIlkHarfleriBuyukYap
617:         //
618:         this.btnIlkHarfleriBuyukYap.Location = new System.Drawing.Point(21, 42);
619:         this.btnIlkHarfleriBuyukYap.Name = "btnIlkHarfleriBuyukYap";
620:         this.btnIlkHarfleriBuyukYap.Size = new System.Drawing.Size(104, 23);
621:         this.btnIlkHarfleriBuyukYap.TabIndex = 11;
622:         this.btnIlkHarfleriBuyukYap.Text = "Ilk Harfler Büyük";
623:         this.btnIlkHarfleriBuyukYap.UseVisualStyleBackColor = true;
624:         this.btnIlkHarfleriBuyukYap.Click += new
System.EventHandler(this.btnIlkHarfleriBuyukYap_Click);
625:         //
626:         // txtMetin
627:         //
628:         this.txtMetin.Location = new System.Drawing.Point(119, 12);
629:         this.txtMetin.Name = "txtMetin";
630:         this.txtMetin.Size = new System.Drawing.Size(595, 20);
631:         this.txtMetin.TabIndex = 4;
```

```

632:         //
633:         // label17
634:         //
635:         this.label17.AutoSize = true;
636:         this.label17.Location = new System.Drawing.Point(17, 19);
637:         this.label17.Name = "label17";
638:         this.label17.Size = new System.Drawing.Size(33, 13);
639:         this.label17.TabIndex = 3;
640:         this.label17.Text = "Metin";
641:         //
642:         // FrmAnaSayfa
643:         //
644:         this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
645:         this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
646:         this.AutoSizeMode = System.Windows.Forms.AutoSizeMode.GrowAndShrink;
647:         this.ClientSize = new System.Drawing.Size(800, 686);
648:         this.Controls.Add(this.pnlMetinIslemleri);
649:         this.Controls.Add(this.pnlKisiIslemleri);
650:         this.Controls.Add(this.pnlSayiIslemleri);
651:         this.Controls.Add(this.pnlSifreIslemleri);
652:         this.Controls.Add(this.pnlTarihIslemleri);
653:         this.Controls.Add(this.label1);
654:         this.Controls.Add(this.cmbIslemTuru);
655:         this.Name = "FrmAnaSayfa";
656:         this.StartPosition = System.Windows.Forms.FormStartPosition.CenterScreen;
657:         this.Text = "Islemler Ekrani";
658:         this.Load += new System.EventHandler(this.FrmAnaSayfa_Load);
659:         this.pnlTarihIslemleri.ResumeLayout(false);
660:         this.pnlTarihIslemleri.PerformLayout();
661:         this.pnlSifreIslemleri.ResumeLayout(false);
662:         this.pnlSifreIslemleri.PerformLayout();
663:         this.pnlSayiIslemleri.ResumeLayout(false);
664:         this.pnlSayiIslemleri.PerformLayout();
665:         this.pnlKisiIslemleri.ResumeLayout(false);
666:         this.pnlKisiIslemleri.PerformLayout();
667:         this.pnlMetinIslemleri.ResumeLayout(false);
668:         this.pnlMetinIslemleri.PerformLayout();
669:         this.ResumeLayout(false);
670:         this.PerformLayout();
671:     }
672:
673:     #endregion
674:
675:     private System.Windows.Forms.ComboBox cmbIslemTuru;
676:     private System.Windows.Forms.Label label1;
677:     private System.Windows.Forms.Panel pnlTarihIslemleri;
678:     private System.Windows.Forms.Label label2;
679:     private System.Windows.Forms.Label label3;
680:     private System.Windows.Forms.DateTimePicker dtpBaslangicTarihi;
681:     private System.Windows.Forms.DateTimePicker dtpBitisTarihi;
682:     private System.Windows.Forms.ListBox lbSonuc;
683:     private System.Windows.Forms.Label label4;
684:     private System.Windows.Forms.Button btnYasHesapla;
685:     private System.Windows.Forms.Button btnYasHesaplaMetinsel;
686:     private System.Windows.Forms.Button btnTarihAraligi;
687:     private System.Windows.Forms.Panel pnlSifreIslemleri;
688:     private System.Windows.Forms.Label label5;
689:     private System.Windows.Forms.TextBox txtSifrelenecekMetin;
690:     private System.Windows.Forms.Button btnMd5Hash;
691:     private System.Windows.Forms.Label label6;
692:     private System.Windows.Forms.ListBox lbSifreSonuc;
693:     private System.Windows.Forms.Button btnSha256Hash;
694:     private System.Windows.Forms.Button btnSha512Hash;
695:     private System.Windows.Forms.Button btnRastgeleSifreUret;
696:     private System.Windows.Forms.Button btnSifreUygunMu;
697:     private System.Windows.Forms.Label label8;
698:     private System.Windows.Forms.Label label7;
699:     private System.Windows.Forms.Button btnAyFarki;
700:     private System.Windows.Forms.Panel pnlSayiIslemleri;

```



```

701:         private System.Windows.Forms.Label label9;
702:         private System.Windows.Forms.Button btnOnayKoduOlustur;
703:         private System.Windows.Forms.Button btnMetneDonustur;
704:         private System.Windows.Forms.Label label10;
705:         private System.Windows.Forms.ListBox lbSayiSonuc;
706:         private System.Windows.Forms.Button btnSayisalMi;
707:         private System.Windows.Forms.TextBox txtSayi;
708:         private System.Windows.Forms.Label label11;
709:         private System.Windows.Forms.Panel pnlKisiIslemleri;
710:         private System.Windows.Forms.Label label12;
711:         private System.Windows.Forms.Button btnEPostaDogrula;
712:         private System.Windows.Forms.Button btnIbanDogrula;
713:         private System.Windows.Forms.Label label13;
714:         private System.Windows.Forms.ListBox lbKisiSonuc;
715:         private System.Windows.Forms.Button btnTcKimlikDogrula;
716:         private System.Windows.Forms.TextBox txtKisiMetni;
717:         private System.Windows.Forms.Label label14;
718:         private System.Windows.Forms.Panel pnlMetinIslemleri;
719:         private System.Windows.Forms.Label label15;
720:         private System.Windows.Forms.Button btnTurkceKarakterDuzelt;
721:         private System.Windows.Forms.Button btnIlkHarfiBuyukYap;
722:         private System.Windows.Forms.Label label16;
723:         private System.Windows.Forms.ListBox lbMetinSonuc;
724:         private System.Windows.Forms.Button btnIlkHarfleriBuyukYap;
725:         private System.Windows.Forms.TextBox txtMetin;
726:         private System.Windows.Forms.Label label17;
727:         private System.Windows.Forms.Button btnMetinSifrele;
728:         private System.Windows.Forms.Button btnTelefonNoDuzenle;
729:     }
730: }
731:

```

Namespaces

Name	Description
CSharpHelperMethods (see page 1)	This is namespace CSharpHelperMethods.

1.2.8 Kisilslemleri.cs

This is file Kisilslemleri.cs.

Body Source

```

1: ?using System;
2: using System.Text;
3: using System.Text.RegularExpressions;
4:
5: namespace CSharpHelperMethods.YardimciSiniflar
6: {
7:     /// <summary>
8:     /// Kisi ile ilgili yardimci metotlarin tamamini iceren sinif
9:     /// </summary>
10:    public static class KisiIslemleri
11:    {
12:        /// <summary>
13:        /// Girilen TC Kimlik Numarasinin, standart TC Kimlik No algoritmasina uygun
14:        /// olmadigini kontrol eden metottur.
15:        /// </summary>
16:        /// <param name="tcKimlikNo">TC Kimlik No</param>
17:        /// <returns>TC Kimlik No'nun Uygun Olup Olmadigi Bilgisi</returns>
18:        public static bool DogrulaTcKimlikNo(string tcKimlikNo)
19:        {
20:            var tcNo = Convert.ToInt64(tcKimlikNo);
21:            var atcno = tcNo / 100;

```

```

22:         var btcno = tcNo / 100;
23:         var c1 = atcno % 10; atcno /= 10;
24:         var c2 = atcno % 10; atcno /= 10;
25:         var c3 = atcno % 10; atcno /= 10;
26:         var c4 = atcno % 10; atcno /= 10;
27:         var c5 = atcno % 10; atcno /= 10;
28:         var c6 = atcno % 10; atcno /= 10;
29:         var c7 = atcno % 10; atcno /= 10;
30:         var c8 = atcno % 10; atcno /= 10;
31:         var c9 = atcno % 10;
32:         var q1 = (10 - ((c1 + c3 + c5 + c7 + c9) * 3 + c2 + c4 + c6 + c8) % 10) %
10;
33:         var q2 = (10 - ((c2 + c4 + c6 + c8 + q1) * 3 + c1 + c3 + c5 + c7 + c9) %
10) % 10;
34:         var dogrula = btcno * 100 + q1 * 10 + q2 == tcNo;
35:         return dogrula;
36:     }
37:
38:     /// <summary>
39:     /// Girilen IBAN'in standar IBAN algoritmasina uygun olup olmadigini dogrular
40:     /// </summary>
41:     /// <code>DogrulaIBAN("TR560006200000012990022604")</code>
42:     /// <param name="iban">Uluslar arasi banka hesap numarasi (IBAN) </param>
43:     /// <returns>IBAN uygunsa true, degilse false degeri döner</returns>
44:     public static bool DogrulaIBAN(string iban)
45:     {
46:         iban = iban.ToUpper();
47:
48:         if (string.IsNullOrEmpty(iban))
49:             return false;
50:
51:         if (!Regex.IsMatch(iban, "^[A-Z0-9]"))
52:             return false;
53:
54:         iban = iban.Replace(" ", String.Empty);
55:         var bank = iban.Substring(4, iban.Length - 4) + iban.Substring(0, 4);
56:         const int asciiShift = 55;
57:         var sb = new StringBuilder();
58:         foreach (var c in bank)
59:         {
60:             sb.Append(char.IsLetter(c) ? c - asciiShift : int.Parse(c.ToString()));
61:         }
62:
63:         var checksumString = sb.ToString();
64:         var checksum = int.Parse(checksumString.Substring(0, 1));
65:         for (var i = 1; i < checksumString.Length; i++)
66:         {
67:             var v = int.Parse(checksumString.Substring(i, 1));
68:             checksum *= 10;
69:             checksum += v;
70:             checksum %= 97;
71:         }
72:         return checksum == 1;
73:     }
74:
75:     /// <summary>
76:     /// Ekranlardan girilen bir e-posta adresinin geçerli bir e-posta adresi olup
77:     /// olmadigini
78:     /// Kontrol eden metottur
79:     /// </summary>
80:     /// <param name="ePosta">E-Posta Adresi</param>
81:     /// <returns>E-Posta Adresinin Geçerli Olup Olmadigi Bilgisi</returns>
82:     public static bool DogrulaEPosta(string ePosta)
83:     {
84:         const string pattern = @"^(([\w-]+\.)+[\w-]+|([a-zA-Z]{1}|[\w-]{2,}))@"
85:             + @"((([0-1]?[0-9]{1,2}|25[0-5]|2[0-4][0-9])\.")
86:             + @"([0-1]?[0-9]{1,2}|25[0-5]|2[0-4][0-9])\.")
87:             + @"([0-1]?[0-9]{1,2}|25[0-5]|2[0-4][0-9])){1}|"

```

```

88:                                     + @"([a-zA-Z]+[\w-]+\.)+[a-zA-Z]{2,4})$";
89:             return Regex.IsMatch(ePosta, pattern);
90:         }
91:     }
92: }

```

Namespaces

Name	Description
CSharpHelperMethods (see page 1)	This is namespace CSharpHelperMethods.

1.2.9 MetinIslemleri.cs

This is file MetinIslemleri.cs.

Body Source

```

1: ?using System;
2: using System.Collections.Generic;
3: using System.Globalization;
4: using System.Linq;
5: using System.Text;
6: using System.Text.RegularExpressions;
7:
8: namespace CSharpHelperMethods.YardimciSiniflar
9: {
10:     /// <summary>
11:     /// Metinsel veri kontrol metotlarini barindiran sinif
12:     /// </summary>
13:     public static class MetinIslemleri
14:     {
15:         /// <summary>
16:         /// Girilen metnin basinda virgöl olup olmadigini kontrol eden metottur.
17:         /// </summary>
18:         /// <param name="text">Girdi metni</param>
19:         /// <returns>Girilen Metnin Olmasi Gerektigi Hali</returns>
20:         public static string IdealMetinGetir(string text)
21:         {
22:             if (!string.IsNullOrEmpty(text) && text[0] == ',')
23:             {
24:                 text = text.Substring(1, text.Length - 1);
25:             }
26:             return text;
27:         }
28:
29:         public static string MetinZararliKarakterDuzelt(string text)
30:         {
31:             text = text.Replace("&#252;", "ü");
32:             return text;
33:         }
34:
35:         public static string MetinSifrele(string metin)
36:         {
37:             if (string.IsNullOrEmpty(metin)) return metin;
38:             var metinDuzenleyici = new StringBuilder(metin);
39:             switch (metin.Length)
40:             {
41:                 case 10:
42:                     metinDuzenleyici.Remove(2, 6);
43:                     metinDuzenleyici.Insert(2, "*****");
44:                     metin = metinDuzenleyici.ToString();
45:                     break;
46:                 case 11:
47:                     metinDuzenleyici.Remove(2, 7);
48:                     metinDuzenleyici.Insert(2, "*****");

```



```

49:         metin = metinDuzenleyici.ToString();
50:         break;
51:     }
52:     return metin;
53: }
54:
55: /// <summary>
56: /// Girilen metnin basinda virgöl olup olmadigini kontrol eden metottur.
57: /// </summary>
58: /// <param name="text">Girdi metni</param>
59: /// <returns>Girilen Metnin Olmasi Gerektigi Hali</returns>
60: public static string TurkceKarakterleriDuzelt(string text)
61: {
62:     text = text.Replace("ü", "u");
63:     text = text.Replace("i", "i");
64:     text = text.Replace("ö", "o");
65:     text = text.Replace("ü", "u");
66:     text = text.Replace("s", "s");
67:     text = text.Replace("g", "g");
68:     text = text.Replace("ç", "c");
69:     text = text.Replace("Ü", "U");
70:     text = text.Replace("İ", "I");
71:     text = text.Replace("Ö", "O");
72:     text = text.Replace("Û", "U");
73:     text = text.Replace("S", "S");
74:     text = text.Replace("G", "G");
75:     text = text.Replace("Ç", "C");
76:     return text;
77: }
78:
79: /// <summary>
80: /// Girilen metnin basinda virgöl olup olmadigini kontrol eden metottur.
81: /// </summary>
82: /// <param name="text">Girdi metni</param>
83: /// <returns>Girilen Metnin Olmasi Gerektigi Hali</returns>
84: public static string UTF8Duzelt(string text)
85: {
86:     text = text.Replace("&ccedil;", "ç");
87:     text = text.Replace("&ouml;", "ö");
88:     text = text.Replace("&uuml;", "ü");
89:     text = text.Replace("&cedil;", "ç");
90:     text = text.Replace("&ouml;", "ö");
91:     text = text.Replace("&uuml;", "ü");
92:     return text;
93: }
94:
95: /// <summary>
96: /// Girilen metnin basinda virgöl olup olmadigini kontrol eden metottur.
97: /// </summary>
98: /// <param name="text">Girdi metni</param>
99: /// <returns>Girilen Metnin Olmasi Gerektigi Hali</returns>
100: public static string HTMLDuzelt(string text)
101: {
102:     var sc = new List<string>
103:     {
104:         // get rid of unnecessary tag spans (comments and title)
105:         @"<!--(\w|\W)+?-->",
106:         @"<title>(\w|\W)+?</title>",
107:         // Get rid of classes and styles
108:         @"\s?class=\w+",
109:         @"\s+style='[^']*'",
110:         // Get rid of unnecessary tags
111:         @"<(meta|link|/?o:|/?style|/?div|/?st\d|/?head|/?html|body|/?body|/?span|!\[^\>]*?>",
112:         // Get rid of empty paragraph tags
113:         @"(<[^\>]+>)+&nbsp;(</\w+>)+",
114:         @"<a[^\>]*(<[^\>]+>)</a>",
115:         @"<p[^\>]*(<[^\>]+>)</p>",
116:         // remove bizarre v: element attached to <img> tag

```

```

117:         @"\\s+v:\\w+=\"[^\"]+\"",
118:         // remove extra lines
119:         @"(\\n\\r){2,}",
120:         "&nbsp;";
121:     };
122:     text = sc.Aggregate(text, (current, s) => Regex.Replace(current, s,
string.Empty, RegexOptions.IgnoreCase));
123:     text = Regex.Replace(text, "<.*?>", String.Empty);
124:     text = text.Replace("\\r", " ").Replace("\\n", " ").Replace("  ", "
").Trim();
125:     text = text.Replace("&rsquo;", "'");
126:     text = text.Replace("&rsquo;", "'");
127:     text = text.Replace("&rdquo;", "\"");
128:     text = text.Replace("&rdquo;", "\"");
129:
130:     text = text.Replace("&lsquo;", "'");
131:     text = text.Replace("&lsquo;", "'");
132:     text = text.Replace("&ldquo;", "\"");
133:     text = text.Replace("&ldquo;", "\"");
134:
135:     text = text.Replace("&lt;", "<");
136:     text = text.Replace("&gt;", ">");
137:     text = text.Replace("&amp;", "&");
138:     //text = text.Replace("&lt;", "");
139:     //text = text.Replace("&p&gt;", "");
140:     //text = text.Replace("&/p&gt;", "");
141:     //text = text.Replace("&gt;", "");
142:     //return text;
143:     return text;
144: }
145:
146: public static string MetinIlkKarakterBuyukDigerleriKucukYap(string text) =>
text.First().ToString().ToUpper() + text.Substring(1);
147:
148: /// <summary>
149: /// Girilen bir metindeki tüm kelimelerin ilk harflerinin
150: /// Büyük yapılması için hazırlanan metottur
151: /// </summary>
152: /// <param name="input">Girilen metin</param>
153: /// <returns>Metnin Kelimelerinin İlk Harflerinin Büyüültülmüş Hali</returns>
154: public static string MetinIlkKarakterleriBuyukYap(this string input)
155: {
156:     var result = "";
157:     var wordList = input.Split(' ');
158:     var cultureInfo = new CultureInfo("tr-TR");
159:     foreach (var item in wordList)
160:     {
161:         if (item.Length > 1)
162:             result = result + " " + item.Substring(0, 1).ToUpper(cultureInfo) +
item.Substring(1).ToLower(cultureInfo) + " ";
163:         else if (item.Length == 1)
164:             result = result + " " + item.ToUpper(cultureInfo) + " ";
165:     }
166:     return result;
167: }
168:
169: /// <summary>
170: /// Girilen telefon numarasının SMS gönderilecek hale getirilmesini sağlayan
metottur.
171: /// </summary>
172: /// <param name="telefonNo">Telefon No Bilgisi</param>
173: /// <returns>Girilen Telefon Numarasının SMS Gönderilecek Hali</returns>
174: public static string TelefonNoDuzenle(string telefonNo)
175: {
176:     if (string.IsNullOrEmpty(telefonNo)) return string.Empty;
177:     telefonNo = telefonNo.Replace("-", "").Replace(" ", "").Replace("(",
").Replace(")", "");
178:     if (telefonNo.Length == 11)
179:     {

```

```

180:         telefonNo = telefonNo.Substring(telefonNo.Length - 10);
181:     }
182:     return telefonNo;
183: }
184:
185:
186:     /// <summary>
187:     /// Girilen metnin bosluklarinin kaldırilmasini saglayan metottur.
188:     /// </summary>
189:     /// <param name="metin">Telefon No Bilgisi</param>
190:     /// <returns>Girilen Metnin Istenen Hali</returns>
191:     public static string BoslukKaldir(string metin)
192:     {
193:         if (string.IsNullOrEmpty(metin)) return string.Empty;
194:         metin = metin.Replace("-", "").Replace(" ", "").Replace("(",
195:         "").Replace(")", "");
196:         return metin;
197:     }
198: }
199: }

```

Namespaces

Name	Description
CSharpHelperMethods (see page 1)	This is namespace CSharpHelperMethods.

1.2.10 Program.cs

This is file Program.cs.

Body Source

```

1: ?using System;
2: using System.Windows.Forms;
3:
4: namespace CSharpHelperMethods
5: {
6:     internal static class Program
7:     {
8:         /// <summary>
9:         /// The main entry point for the application.
10:        /// </summary>
11:        [STAThread]
12:        private static void Main()
13:        {
14:            Application.EnableVisualStyles();
15:            Application.SetCompatibleTextRenderingDefault(false);
16:            Application.Run(new FrmAnaSayfa());
17:        }
18:    }
19: }

```

Namespaces

Name	Description
CSharpHelperMethods (see page 1)	This is namespace CSharpHelperMethods.

1.2.11 Resources.Designer.cs

This code was generated by a tool. Runtime Version:4.0.30319.42000

Changes to this file may cause incorrect behavior and will be lost if the code is regenerated.

Body Source

```

1:  ?//-----
2:  // <auto-generated>
3:  //      This code was generated by a tool.
4:  //      Runtime Version:4.0.30319.42000
5:  //
6:  //      Changes to this file may cause incorrect behavior and will be lost if
7:  //      the code is regenerated.
8:  // </auto-generated>
9:  //-----
10:
11: namespace CSharpHelperMethods.Properties
12: {
13:
14:
15:     /// <summary>
16:     ///     A strongly-typed resource class, for looking up localized strings, etc.
17:     /// </summary>
18:     // This class was auto-generated by the StronglyTypedResourceBuilder
19:     // class via a tool like ResGen or Visual Studio.
20:     // To add or remove a member, edit your .ResX file then rerun ResGen
21:     // with the /str option, or rebuild your VS project.
22:
23:     [global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Resources.Tools.StronglyTypedResourceBuilder",
24:         "4.0.0.0")]
25:     [global::System.Diagnostics.DebuggerNonUserCodeAttribute()]
26:     [global::System.Runtime.CompilerServices.CompilerGeneratedAttribute()]
27:     internal class Resources
28:     {
29:
30:         private static global::System.Resources.ResourceManager resourceMan;
31:
32:         private static global::System.Globalization.CultureInfo resourceCulture;
33:
34:         [global::System.Diagnostics.CodeAnalysis.SuppressMessageAttribute("Microsoft.Performance",
35:             "CA1811:AvoidUncalledPrivateCode")]
36:         internal Resources()
37:         {
38:
39:             /// <summary>
40:             ///     Returns the cached ResourceManager instance used by this class.
41:             /// </summary>
42:
43:             [global::System.ComponentModel.EditorBrowsableAttribute(global::System.ComponentModel.EditorBrowsableState.Advanced)]
44:             internal static global::System.Resources.ResourceManager ResourceManager
45:             {
46:                 get
47:                 {
48:                     if ((resourceMan == null))
49:                     {
50:                         global::System.Resources.ResourceManager temp = new
51:                         global::System.Resources.ResourceManager("CSharpHelperMethods.Properties.Resources",
52:                             typeof(Resources).Assembly);
53:                         resourceMan = temp;
54:                     }
55:                     return resourceMan;
56:                 }
57:             }
58:
59:             /// <summary>
60:             ///     Overrides the current thread's CurrentUICulture property for all
61:             ///     resource lookups using this strongly typed resource class.

```

```

57:         /// </summary>
58: [global::System.ComponentModel.EditorBrowsableAttribute(global::System.ComponentModel.EditorBrowsableState.Advanced)]
59:         internal static global::System.Globalization.CultureInfo Culture
60:         {
61:             get
62:             {
63:                 return resourceCulture;
64:             }
65:             set
66:             {
67:                 resourceCulture = value;
68:             }
69:         }
70:     }
71: }

```

Namespaces

Name	Description
CSharpHelperMethods (see page 1)	This is namespace CSharpHelperMethods.

1.2.12 Sabitler.cs

This is file Sabitler.cs.

Body Source

```

1: ?using System;
2: using System.Text;
3:
4: namespace CSharpHelperMethods.YardimciSiniflar
5: {
6:     /// <summary>
7:     /// Metin Sabitlerinin Bulundugu Sinif
8:     /// </summary>
9:     public static class Sabitler
10:    {
11:        public static string BaslangicTarihiGirilmedi = "Baslangic Tarihi girilmedigi
        için bu islem gerçekleştirilemez.";
12:        public static string BitisTarihiGirilmedi = "Bitis Tarihi girilmedigi için bu
        islem gerçekleştirilemez.";
13:        public static string BaslangicVeyaBitisTarihiGirilmedi = "Baslangic Tarihi veya
        Bitis Tarihi girilmedigi için bu islem gerçekleştirilemez.";
14:        public static string BaslangicTarihiBuyuk = "Baslangic Tarihi Bitis Tarihinden
        büyük olamaz.";
15:        public static string SifrelenecekMetinGirilmedi = "Sifrelenecek metin
        girilmedigi için bu islem gerçekleştirilemez.";
16:        public static string SifreMetniGirilmedi = "Sifre metni girilmedigi için bu
        islem gerçekleştirilemez.";
17:        public static string MetinGirilmedi = "Metin girilmedigi için bu islem
        gerçekleştirilemez.";
18:        public static string MetinSayisalDegil = "Girilen metin sayisal bir deger
        olmadigi için bu islem gerçekleştirilemez.";
19:        public static string MetinTcKimlikNoDegil = "Girilen metin 11 karakter olmadigi
        için bu islem gerçekleştirilemez. Karakter Sayisi: ";
20:        public static string MetinIbanNoDegil = "Girilen metin 26 karakter olmadigi
        için bu islem gerçekleştirilemez.";
21:        public static string MetinTcKimlikNoVeyaVergiNoDegil = "Girilen metin 10 veya
        11 karakter olmadigi için bu islem gerçekleştirilemez.";
22:    }
23: }

```

Namespaces

Name	Description
CSharpHelperMethods (see page 1)	This is namespace CSharpHelperMethods.

1.2.13 Sayislemeleri.cs

This is file Sayislemeleri.cs.

Body Source

```

1: ?using System;
2: using System.Globalization;
3: using System.Linq;
4: using System.Text;
5:
6: namespace CSharpHelperMethods.YardimciSiniflar
7: {
8:     /// <summary>
9:     /// Sayisal veri kontrol metotlarini barindiran sinif
10:    /// </summary>
11:    public static class SayiIslemleri
12:    {
13:        /// <summary>
14:        /// Girilen bir metnin sayi olup olmadigini kontrol eden metottur.
15:        /// </summary>
16:        /// <param name="text">Girdi metni</param>
17:        /// <returns>Girilen Metnin Sayisal Olup Olmadigi Bilgisi</returns>
18:        public static bool SayisalMi(string text) => text.All(char.IsNumber);
19:
20:        /// <summary>
21:        /// Ekrandan alınan string degerde virgöl olduğundan ajax metodu patladigi için
22:        /// Burada string olarak tutar verisi aliniyor
23:        /// Ve decimala çevriliyor
24:        /// </summary>
25:        /// <param name="metin">Girilen String Deger</param>
26:        /// <returns>Decimal Deger</returns>
27:        public static decimal SayiHalineCevir(string metin)
28:        {
29:            decimal val;
30:            if (metin.Contains("_") || metin.Contains(".") || metin.Contains(","))
31:            {
32:                if (!decimal.TryParse(metin.Replace(",", "").Replace(".", "",
33:                " ").Replace("_", " "), NumberStyles.Number,
34:                CultureInfo.InvariantCulture, out val))
35:                {
36:                    return 0;
37:                }
38:                return val / 100;
39:            }
40:            var value = decimal.TryParse(metin.Replace(",", " ").Replace(".", "",
41:            " ").Replace("_", " "), NumberStyles.Number,
42:            CultureInfo.InvariantCulture, out val);
43:            return value ? val : 0;
44:        }
45:
46:        /// <summary>
47:        /// Elimizdeki tutar verilerinin
48:        /// Yazı formatında gösterilmesini sağlayacak bir metottur
49:        /// </summary>
50:        /// <param name="tutar">Girilen Sayı Bilgisi</param>
51:        /// <returns>Sayinin Yazıya Dönüştürülmüş Hali</returns>
52:        public static string SayiyiYaziyaCevir(decimal tutar)
53:        {
54:            var sTutar = tutar.ToString("F2").Replace('.', ','); // Replace('.', ',')
55:        }
56:    }
57: }

```

```

ondalik ayracinin . olma durumu için
52:         var lira = sTutar.Substring(0, sTutar.IndexOf(',')); //tutarin tam kısmi
53:         var kurus = sTutar.Substring(sTutar.IndexOf(',') + 1, 2);
54:         var yazi = new StringBuilder();
55:
56:         var birler = new[] { "", "BİR", "İKİ", "ÜÇ", "DÖRT", "BES", "ALTI", "YEDİ",
"SEKİZ", "DOKUZ" };
57:         var onlar = new[] { "", "ON", "YIRMI", "OTUZ", "KIRK", "ELLİ", "ALTMIS",
"YETMİS", "SEKSEN", "DOKSAN" };
58:         var binler = new[] { "KENTRİLYON", "KATRİLYON", "TRİLYON", "MİLYAR",
"MİLYON", "BİN", "" };
59:
60:         const int grupSayisi = 7;
61:         //sayidaki 3'lü grup sayısı. katrilyon içi 6. (1.234,00 daki grup sayısı
2'dir.)
62:         //KATRİLYON'un basına ekleyeceğiniz her değer için grup sayisini artiriniz.
63:
64:         lira = lira.PadLeft(grupSayisi * 3, '0'); //sayinin soluna '0' eklenerek
sayi 'grup sayısı x 3' basakmakli yapiliyor.
65:
66:         for (var i = 0; i < grupSayisi * 3; i += 3) //sayi 3'erli gruplar halinde
ele aliniyor.
67:         {
68:             var grupDegeri = new StringBuilder();
69:
70:             if (lira.Substring(i, 1) != "0")
71:                 grupDegeri.Append(birler[Convert.ToInt32(lira.Substring(i, 1))] +
"YÜZ"); //yüzler
72:             if (grupDegeri.ToString().Equals("BİRÜZ"))
73:                 grupDegeri.Replace("BİRÜZ", "YÜZ");
74:             grupDegeri.Append(onlar[Convert.ToInt32(lira.Substring(i + 1, 1))]);
//onlar
75:             grupDegeri.Append(birler[Convert.ToInt32(lira.Substring(i + 2,
1))]); //birler
76:             if (grupDegeri.Length > 0) //binler
77:                 grupDegeri.Append(binler[i / 3]);
78:             if (grupDegeri.ToString().Equals("BİRBİN"))
79:                 grupDegeri.Replace("BİRBİN", "BİN");
80:
81:             yazi.Append(grupDegeri);
82:         }
83:
84:         if (yazi.Length > 0)
85:             yazi.Append(" TL ");
86:
87:         var yaziUzunlugu = yazi.Length;
88:
89:         if (kurus.Substring(0, 1) != "0") //kurus onlar
90:             yazi.Append(onlar[Convert.ToInt32(kurus.Substring(0, 1))]);
91:
92:         if (kurus.Substring(1, 1) != "0") //kurus birler
93:             yazi.Append(birler[Convert.ToInt32(kurus.Substring(1, 1))]);
94:
95:         yazi.Append(yazi.Length > yaziUzunlugu ? " KR." : "SİFİR KR.");
96:
97:         return yazi.ToString();
98:     }
99:
100:     /// <summary>
101:     /// Sadece rakamlardan olusan 6 haneli random sayi üreten metottur.
102:     /// </summary>
103:     /// <returns>6 Haneli Onay Kodu</returns>
104:     public static string AltiHaneliOnayKoduOlustur()
105:     {
106:         var rastgele = new Random();
107:         var sb = new StringBuilder();
108:         for (var i = 0; i < 6; i++)
109:         {
110:             var ascii = rastgele.Next(48, 57); //Rakamlar

```

```

111:         var karakter = Convert.ToChar(ascii);
112:         sb.Append(karakter);
113:     }
114:
115:     return sb.ToString();
116: }
117: }
118: }

```

Namespaces

Name	Description
CSharpHelperMethods (see page 1)	This is namespace CSharpHelperMethods.

1.2.14 Settings.Designer.cs

This code was generated by a tool. Runtime Version:4.0.30319.42000

Changes to this file may cause incorrect behavior and will be lost if the code is regenerated.

Body Source

```

1: ?//-----
2: // <auto-generated>
3: //     This code was generated by a tool.
4: //     Runtime Version:4.0.30319.42000
5: //
6: //     Changes to this file may cause incorrect behavior and will be lost if
7: //     the code is regenerated.
8: // </auto-generated>
9: //-----
10:
11: namespace CSharpHelperMethods.Properties
12: {
13:
14:
15:     [global::System.Runtime.CompilerServices.CompilerGeneratedAttribute()]
16:
17:     [global::System.CodeDom.Compiler.GeneratedCodeAttribute("Microsoft.VisualStudio.Editors.SettingsDesigner.SettingsSingleFileGenerator",
18:     "11.0.0.0")]
19:     internal sealed partial class Settings :
20:     global::System.Configuration.ApplicationSettingsBase
21:     {
22:
23:         private static Settings defaultInstance =
24:         ((Settings)(global::System.Configuration.ApplicationSettingsBase.Synchronized(new
25:         Settings())));
26:
27:         public static Settings Default
28:         {
29:             get
30:             {
31:                 return defaultInstance;
32:             }
33:         }
34:     }
35: }

```

Namespaces

Name	Description
CSharpHelperMethods (see page 1)	This is namespace CSharpHelperMethods.

1.2.15 Sifrelemelslemleri.cs

This is file Sifrelemelslemleri.cs.

Body Source

```

1: ?using System;
2: using System.Collections.Generic;
3: using System.Linq;
4: using System.Security.Cryptography;
5: using System.Text;
6: using System.Text.RegularExpressions;
7:
8: namespace CSharpHelperMethods.YardimciSiniflar
9: {
10:     /// <summary>
11:     /// Sifre ile ilgili islemler sinifi
12:     /// </summary>
13:     public static class SifrelemeIslemleri
14:     {
15:         /// <summary>
16:         /// Kullanici sifresinin SHA yöntemiyle sifrelenmesini saglayan metottur.
17:         /// </summary>
18:         /// <param name="text">Sifrelenecek Metin</param>
19:         /// <returns>Girdi Metninin Sifrelenmis Hali</returns>
20:         public static string HesaplaSHA512(string text)
21:         {
22:             var sha512 = new SHA512Managed();
23:             var encryptedSha512 = sha512.ComputeHash(Encoding.UTF8.GetBytes(text));
24:             var strHex = encryptedSha512.Aggregate("", (current, b) =>
25:                 $"{{current}}{{b:x2}}");
26:             return strHex.ToUpper();
27:         }
28:         /// <summary>
29:         /// Kullanici sifresinin SHA yöntemiyle sifrelenmesini saglayan metottur.
30:         /// </summary>
31:         /// <param name="text">Sifrelenecek Metin</param>
32:         /// <returns>Girdi Metninin Sifrelenmis Hali</returns>
33:         public static string HesaplaSHA256(string text)
34:         {
35:             var sha256 = SHA256.Create();
36:             var bytes = Encoding.UTF8.GetBytes(text);
37:             var hash = sha256.ComputeHash(bytes);
38:             var result = new StringBuilder();
39:             foreach (var t in hash)
40:             {
41:                 result.Append(t.ToString("X2"));
42:             }
43:             return result.ToString();
44:         }
45:         /// <summary>
46:         /// Kullanici sifresinin MD5 yöntemiyle sifrelenmesini saglayan metottur.
47:         /// </summary>
48:         /// <param name="text">Sifrelenecek Metin</param>
49:         /// <returns>Girdi Metninin Sifrelenmis Hali</returns>
50:         public static string HesaplaMD5(string text)
51:         {
52:             var md5 = MD5.Create();
53:             var inputBytes = Encoding.ASCII.GetBytes(text);
54:             var hash = md5.ComputeHash(inputBytes);
55:
56:             var sb = new StringBuilder();
57:             foreach (var t in hash)
58: 
```

```

59:         {
60:             sb.Append(t.ToString("X2"));
61:         }
62:         return sb.ToString();
63:     }
64:
65:     /// <summary>
66:     /// sifreyi kriterlere göre kontrol edip
67:     /// uymayan kosullarini string listesine geri dönüş yapan methoddur.
68:     /// Uygun olmasi durumunda null döndürecektir.
69:     /// </summary>
70:     /// <param name="text">Kullanici Sifresi</param>
71:     /// <returns>Sifrenin Uygun Olup Olmadigi Bilgisi (Açiklamasi ile
beraber)</returns>
72:     public static string SifreUygunMu(string text)
73:     {
74:         //bu kisimda sifrenin olmasi gereken kosullari degerlendirilecek.
75:         var mesajlar = new List<string>();
76:
77:         if (text.Length < 8)
78:             mesajlar.Add("Parola en az 8 karakter olmalidir.");
79:
80:         if (!Regex.IsMatch(text, @"^(?=.*[a-z])", RegexOptions.ECMAScript))
81:             mesajlar.Add("Parola en az bir küçük harf içermelidir.");
82:
83:         if (!Regex.IsMatch(text, @"^(?=.*[A-Z])", RegexOptions.ECMAScript))
84:             mesajlar.Add("Parola en az bir büyük harf içermelidir.");
85:
86:         if (!Regex.IsMatch(text, @"^(?=.*[!@#,$%&*,?_~,-,£,(,)]",
RegexOptions.ECMAScript))
87:             mesajlar.Add("Parola en az bir noktalama isareti içermelidir.");
88:
89:         if (!Regex.IsMatch(text, @"^(?=.*[0-9])", RegexOptions.ECMAScript))
90:             mesajlar.Add("Parola en az bir rakam içermelidir.");
91:
92:         if (mesajlar.Count < 1)
93:             return "Uygun";
94:         var sonuc = mesajlar.Aggregate("", (current, item) => current + item + ",
");
95:         sonuc = sonuc.Substring(0, sonuc.Length - 2);
96:         return sonuc;
97:     }
98:
99:     /// <summary>
100:    /// 8 karakter uzunlugunda Rastgele sifre olusturur.
101:    /// </summary>
102:    /// <returns>Sifrelenmis Metin Bilgisi</returns>
103:    public static string RastgeleSifreUret()
104:    {
105:        var sifreUzunluk = 8;
106:        const string gecerliKarakterler =
"abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ1234567890";
107:        var sifre = new StringBuilder(100);
108:        var random = new Random();
109:        while (0 < sifreUzunluk--)
110:        {
111:            sifre.Append(gecerliKarakterler[random.Next(gecerliKarakterler.Length)]);
112:        }
113:        return sifre.ToString();
114:    }
115: }
116: }

```

Namespaces

Name	Description
CSharpHelperMethods (see page 1)	This is namespace CSharpHelperMethods.

1.2.16 Siralamalslemleri.cs

This is file Siralamalslemleri.cs.

Body Source

```

1: ?using System;
2: using System.Globalization;
3: using System.Text;
4: using static System.String;
5:
6: namespace CSharpHelperMethods.YardimciSiniflar
7: {
8:     /// <summary>
9:     /// Alfa numerik siralama için hazirlanmis bir metod
10:    /// </summary>
11:    public static class SiralamaIslemleri
12:    {
13:        private enum ChunkType { Alphanumeric, Numeric }
14:
15:        private static bool InChunk(char ch, char otherCh)
16:        {
17:            var type = ChunkType.Alphanumeric;
18:
19:            if (char.IsDigit(otherCh))
20:            {
21:                type = ChunkType.Numeric;
22:            }
23:
24:            return (type != ChunkType.Alphanumeric || !char.IsDigit(ch)) && (type !=
ChunkType.Numeric || char.IsDigit(ch));
25:        }
26:
27:        public static int Compare(string x, string y)
28:        {
29:            if (IsNullOrEmpty(x) || IsNullOrEmpty(y)) return 0;
30:            var thisMarker = 0;
31:            var thatMarker = 0;
32:
33:            while (thisMarker < x.Length || thatMarker < y.Length)
34:            {
35:                if (thisMarker >= x.Length)
36:                {
37:                    return -1;
38:                }
39:                if (thatMarker >= y.Length)
40:                {
41:                    return 1;
42:                }
43:
44:                var thisCh = x[thisMarker];
45:                var thatCh = y[thatMarker];
46:
47:                var thisChunk = new StringBuilder();
48:                var thatChunk = new StringBuilder();
49:
50:                while (thisMarker < x.Length && (thisChunk.Length == 0 ||
InChunk(thisCh, thisChunk[0])))
51:                {
52:                    thisChunk.Append(thisCh);
53:                    thisMarker++;
54:
55:                    if (thisMarker < x.Length)
56:                    {
57:                        thisCh = x[thisMarker];

```

```

58:         }
59:     }
60:
61:     while (thatMarker < y.Length && (thatChunk.Length == 0 ||
InChunk(thatCh, thatChunk[0])))
62:     {
63:         thatChunk.Append(thatCh);
64:         thatMarker++;
65:
66:         if (thatMarker < y.Length)
67:         {
68:             thatCh = y[thatMarker];
69:         }
70:     }
71:
72:     var result = 0;
73:     // If both chunks contain numeric characters, sort them numerically
74:     if (char.IsDigit(thisChunk[0]) && char.IsDigit(thatChunk[0]))
75:     {
76:         var thisNumericChunk = Convert.ToInt64(thisChunk.ToString());
77:         var thatNumericChunk = Convert.ToInt64(thatChunk.ToString());
78:
79:         if (thisNumericChunk < thatNumericChunk)
80:         {
81:             result = -1;
82:         }
83:
84:         if (thisNumericChunk > thatNumericChunk)
85:         {
86:             result = 1;
87:         }
88:     }
89:     else
90:     {
91:         var ci = new CultureInfo("tr-TR");
92:         result = String.Compare(thisChunk.ToString(),
thatChunk.ToString(), true,
93:             ci);
94:         //result = thisChunk.ToString().CompareTo(thatChunk.ToString());
95:     }
96:
97:     if (result == 0) continue;
98:     return result;
99: }
100: return 0;
101: }
102: }
103: }

```

Namespaces

Name	Description
CSharpHelperMethods (see page 1)	This is namespace CSharpHelperMethods.

1.2.17 TarihIslemleri.cs

This is file TarihIslemleri.cs.

Body Source

```

1: ?using System;
2: using System.Text;
3:
4: namespace CSharpHelperMethods.YardimciSiniflar
5: {

```

```

6:      /// <summary>
7:      /// Tarihsel veri kontrol metotlarini barindiran sinif
8:      /// </summary>
9:      public static class TarihIslemleri
10:     {
11:         /// <summary>
12:         /// Filtre ekranlarinda baslangic ve bitis tarihi üzerinden sorgulama
yapildiginda
13:         /// Eger ayni gün için sorgulama yapiliyorsa
14:         /// Bitis tarihini o günün 23.59.59.999'una ayarlamak için
15:         /// Hazirlanan metottur
16:         /// </summary>
17:         /// <param name="dateTime">Tarih Bilgisi</param>
18:         /// <param name="hours">Saat Bilgisi</param>
19:         /// <param name="minutes">Dakika Bilgisi</param>
20:         /// <param name="seconds">Saniye Bilgisi</param>
21:         /// <param name="milliseconds">Mili Saniye Bilgisi</param>
22:         /// <returns>Yeni Tarih Bilgisi</returns>
23:         public static DateTime ZamaniDegistir(this DateTime dateTime, int hours, int
minutes, int seconds, int milliseconds)
24:         {
25:             return new DateTime(
26:                 dateTime.Year,
27:                 dateTime.Month,
28:                 dateTime.Day,
29:                 hours,
30:                 minutes,
31:                 seconds,
32:                 milliseconds,
33:                 dateTime.Kind);
34:         }
35:
36:         /// <summary>
37:         /// Yas hesaplamak için kullanılan metottur
38:         /// </summary>
39:         /// <param name="dogumTarihi">Dogum Tarihi Bilgisi</param>
40:         /// <returns>Yas Bilgisi</returns>
41:         public static int YasHesapla(DateTime dogumTarihi)
42:         {
43:             var now = DateTime.Now;
44:             var years = new DateTime(DateTime.Now.Subtract(dogumTarihi).Ticks).Year -
1;
45:             var pastYearDate = dogumTarihi.AddYears(years);
46:             var months = 0;
47:             for (var i = 1; i <= 12; i++)
48:             {
49:                 if (pastYearDate.AddMonths(i) == now)
50:                 {
51:                     months = i;
52:                     break;
53:                 }
54:
55:                 if (pastYearDate.AddMonths(i) < now) continue;
56:                 months = i - 1;
57:                 break;
58:             }
59:             return years;
60:         }
61:
62:         /// <summary>
63:         /// Yas hesaplamak için kullanılan metottur
64:         /// </summary>
65:         /// <param name="dogumTarihi">Dogum Tarihi Bilgisi</param>
66:         /// <returns>Yas Bilgisi (Metinsel olarak)</returns>
67:         public static string YasHesaplaMetinsel(DateTime dogumTarihi)
68:         {
69:             var now = DateTime.Now;
70:             var years = new DateTime(DateTime.Now.Subtract(dogumTarihi).Ticks).Year -
1;

```

```

71:         var pastYearDate = dogumTarihi.AddYears(years);
72:         var months = 0;
73:         for (var i = 1; i <= 12; i++)
74:         {
75:             if (pastYearDate.AddMonths(i) == now)
76:             {
77:                 months = i;
78:                 break;
79:             }
80:
81:             if (pastYearDate.AddMonths(i) < now) continue;
82:             months = i - 1;
83:             break;
84:         }
85:         var days = now.Subtract(pastYearDate.AddMonths(months)).Days;
86:         var hours = now.Subtract(pastYearDate).Hours;
87:         var minutes = now.Subtract(pastYearDate).Minutes;
88:         var seconds = now.Subtract(pastYearDate).Seconds;
89:         return $"Yas: {years} Yil {months} Ay {days} Gün";
90:         //return String.Format("Yas: {0} Yil {1} Ay {2} Gün {3} Saat {4} Saniye",
91:         //years, months, Days, Hours, Seconds);
92:     }
93:
94:     /// <summary>
95:     /// Iki tarih arasinda kaç gün olduğunu hesaplamak için kullanılan metottur
96:     /// </summary>
97:     /// <param name="baslangicTarihi">Baslangiç Tarihi Bilgisi</param>
98:     /// <param name="bitisTarihi">Bitis Tarihi Bilgisi</param>
99:     /// <returns>Tarih Araligi Bilgisi</returns>
100:     public static string TarihAraligiHesapla(DateTime baslangicTarihi, DateTime
bitisTarihi)
101:     {
102:         var years = new DateTime(bitisTarihi.Subtract(baslangicTarihi).Ticks).Year
- 1;
103:         var pastYearDate = baslangicTarihi.AddYears(years);
104:         var months = 0;
105:         for (var i = 1; i <= 12; i++)
106:         {
107:             if (pastYearDate.AddMonths(i) == bitisTarihi)
108:             {
109:                 months = i;
110:                 break;
111:             }
112:
113:             if (pastYearDate.AddMonths(i) < bitisTarihi) continue;
114:             months = i - 1;
115:             break;
116:         }
117:         var days = bitisTarihi.Subtract(pastYearDate.AddMonths(months)).Days;
118:         var result = new StringBuilder();
119:         result.Append(years.ToString().PadLeft(2, '0'));
120:         result.Append(" Yil, ");
121:         result.Append(months.ToString().PadLeft(2, '0'));
122:         result.Append(" Ay, ");
123:         result.Append(days.ToString().PadLeft(2, '0'));
124:         result.Append(" Gün");
125:         return result.ToString();
126:     }
127:
128:     /// <summary>
129:     /// Kidem Tazminatı Hesaplaması Yapilirken ayda kaç gün olursa olsun tamamında
çalışmissa
130:     /// 30 gün üzerinden hesaplanması gerektiği için
131:     /// Isten ayrilis ve is baslangiç tarihleri arasında kaç gün geçtiğini
belirtmek için
132:     /// Hesaplama yapılmasını sağlayan metottur.
133:     /// </summary>
134:     /// <param name="baslangicTarihi">Baslangiç Tarihi Bilgisi</param>
135:     /// <param name="bitisTarihi">Bitis Tarihi Bilgisi</param>

```

```

136:         /// <returns>Gün Sayisi Bilgisi</returns>
137:         public static int KidemTazminatıTarihAralığıHesapla(DateTime? baslangicTarihi,
DateTime? bitisTarihi)
138:         {
139:             var artacakMi = true;
140:             var result = 0;
141:             var baslangicMi = false;
142:             var bitisMi = false;
143:             var aylikGunSayisi = 0;
144:             for (var date = (DateTime)baslangicTarihi; date <= (DateTime)bitisTarihi;
date = date.AddDays(1))
145:             {
146:                 if (!artacakMi)
147:                     result++;
148:                 else
149:                     artacakMi = false;
150:
151:                 if (date.Day == 1)
152:                     baslangicMi = true;
153:                 else if (date.Day == DateTime.DaysInMonth(date.Year, date.Month))
154:                     bitisMi = true;
155:
156:                 if (baslangicMi)
157:                     aylikGunSayisi++;
158:                 if (baslangicMi && bitisMi && aylikGunSayisi != 30)
159:                 {
160:                     result = result - aylikGunSayisi + 30;
161:                     baslangicMi = false;
162:                     bitisMi = false;
163:                     aylikGunSayisi = 0;
164:                 }
165:                 else if (bitisMi)
166:                 {
167:                     baslangicMi = false;
168:                     bitisMi = false;
169:                     aylikGunSayisi = 0;
170:                 }
171:             }
172:             if (baslangicTarihi.Value.Day > bitisTarihi.Value.Day)
173:                 result--;
174:             return result;
175:         }
176:     }
177:
178:     /// <summary>
179:     /// Girilen iki tarih arasında kaç ay olduğunu bulan metottur
180:     /// </summary>
181:     /// <param name="lValue">İlk tarih bilgisi</param>
182:     /// <param name="rValue">Son tarih bilgisi</param>
183:     /// <returns>Ay Farkı Bilgisi</returns>
184:     public static int AyFarki(DateTime lValue, DateTime rValue) =>
Math.Abs(lValue.Month - rValue.Month + 12 * (lValue.Year - rValue.Year));
185: }
186: }

```

Namespaces

Name	Description
CSharpHelperMethods (see page 1)	This is namespace CSharpHelperMethods.

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