File management

Writing to a text file

Create a program to ask the user for several sentences (until they just press Enter) and store them in a text file named "sentences.txt"

```
class WritingFile
{
static void Main()
try
StreamWriter file = File.CreateText("test.dat");
string line;
do
{
Console.Write("Enter a sentence: ");
line = Console.ReadLine();
if (line.Length != 0)
file.WriteLine(line);
}
while(line.Length != 0);
file.Close();
catch (Exception)
Console.WriteLine("Error!!!");
}
}
}
```

Appending to a text file

Create a program to ask the user for several sentences (until they just press Enter) and store them in a text file named "sentences.txt". If the file exists, the new content must be appended to its end.

```
class AppendingTextFile
{
static void Main()
{
try
StreamWriter file = File.AppendText("data.dat");
string line;
do
{
Console.Write("Enter a sentence: ");
line = Console.ReadLine();
if (line != "")
file.WriteLine(line);
while(line != "");
file.Close();
catch (Exception)
Console.WriteLine("Error!!!");
}
}
}
```

Display file contents

Create a program to display all the contents of a text file on screen (note: you must use a StreamReader). The name of the file will be entered in the command line or (if there is no command line present) asked to the user by the program.

```
class DisplayFileContent
{
static void Main()
Console.Write("Enter name of file: ");
string name = Console.ReadLine();
try
StreamReader file; = File.OpenText(name);
string line=" ";
do
line = file.ReadLine();
if (line != null)
Console.WriteLine(line);
}
while (line != null);
catch (Exception e)
Console.WriteLine("Error!!!");
}
}
}
```

Extended TextToHTML (files)

Expand the TextToHtml class, so that ir can dump it result to a text file. Create a method ToFile, which will receive the name of the file as a parameter.

Hint: You must use a "StreamWriter"

```
class TextToHTML
private string[] html;
private int lines;
private int count;
public TextToHTML()
count = 0;
lines = 1000;
html = new string[lines];
}
public void ToFile(string nameFile)
{
try
{
StreamWriter file = File.CreateText(nameFile);
file.WriteLine( ToString() );
file.Close();
}
catch (Exception e)
Console.WriteLine("Error!!!");
}
}
public void Add(string line)
if (count < lines)</pre>
html[count] = line;
count++;
}
}
public string ToString()
```

```
string textHtml;
textHtml = "\n";
textHtml += "\n";
for (int i = 0; i < count; i++)</pre>
textHtml += "
";
textHtml += html[i];
textHtml += "
\n";
}
textHtml += "\n";
textHtml += "\n";
return textHtml;
}
public void Display()
Console.Write( ToString() );
}
}
class Test
static void Main()
TextToHTML textToHTML = new TextToHTML();
textToHTML.Add("Hello");
textToHTML.Add("How are you?");
textToHTML.Display();
textToHTML.ToFile("prueba.html");
}
}
```

TXT to HTML translator

Create a "Text to HTML converter", which will read a source text file and create a HTML file from its contents. For example, if the file contains:

```
Hola
Soy yo
Ya he terminado

The resulting HTML file should contain

Hola
Soy yo
Ya he terminado
```

The name of the destination file must be the same as the source file, but with ".html" extension (which will replace the original ".txt" extension, if it exists). The "title" in the "head" must be taken from the file name.

```
class TXTtoHTML
{
    static void Main()
    {
        Console.Write("Enter name of file: ");
        string nameTXT = Console.ReadLine();
        string nameHTML = nameTXT.Substring(0, nameTXT.Length - 4);

    if (File.Exists(nameTXT))
    {
        StreamReader fileTXT = File.OpenText(nameTXT);
        StreamWriter fileHTML = File.CreateText(nameHTML + ".html");

    fileHTML.WriteLine("");
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```

```
string line;
do
{
line = fileTXT.ReadLine();
if (line != null)
fileHTML.WriteLine("

" + line + "

");
}
while (line != null);
fileHTML.WriteLine("");
fileHTML.WriteLine("");
fileHTML.WriteLine("");
```