

using System;

using System.Collections.Generic;

using System.Globalization;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConvertTemper

{

public class ConvertTemperatory:IFormatProvider,ICustomFormatter

{

public object GetFormat(Type formatType)

{

Console.WriteLine(formatType == typeof(ICustomFormatter));

return formatType == typeof (ICustomFormatter)

? this

: CultureInfo.CurrentCulture.GetFormat(formatType);

}

public string Format(string format, object arg, IFormatProvider formatProvider)

{

switch (format)

{

case "Hou":

return String.Format("{0} - часов",(int)arg%24);

case "Min":

return String.Format("{0} - минут", (int)arg % 60);

case "Sek":

return String.Format("{0} - секунд", (int)arg % 60);

default:

throw new FormatException("Не верно введен формат времени");

}

}

}

}

using System;

using System.Collections.Generic;

using System.IO;

using System.Linq;

using System.Reflection;

using System.Text;

using System.Threading.Tasks;

using System.Xml;

namespace AssamblyConvertTemper

{

class Program

{

static void CreateXML()

{

XmlWriter xw = new XmlTextWriter("text.xml",Encoding.Default)

{

Formatting = Formatting.Indented,

Indentation = 1,

IndentChar = '\t'

};

xw.WriteStartDocument();

xw.WriteStartElement("Start");

xw.WriteEndElement();

xw.WriteEndDocument();

xw.Close();

}

static void WriteXML(string str)

{

XmlDocument xd = new XmlDocument();

xd.Load("text.xml");

XmlNode elem = xd.SelectSingleNode("Start");

XmlNode node = xd.CreateElement("format");

node.InnerText = str;

XmlAttribute attr = node.Attributes.Append(xd.CreateAttribute("attr"));

attr.Value = elem.LastChild != null

? (Convert.ToInt16(elem.LastChild.Attributes.GetNamedItem("attr").Value)+1).ToString() : 1.ToString();

elem.AppendChild(node);

xd.Save("text.xml");

}

static void WriteText(string str)

{

FileStream fs = new FileStream("text.txt", FileMode.OpenOrCreate);

fs.Seek(0, SeekOrigin.End);

TextWriter tw = new StreamWriter(fs);

tw.WriteLine(str);

tw.Close();

}

static void Main(string[] args)

{

Assembly assembly = null;

try

{

assembly = Assembly.LoadFile(@"C:\Users\Виктор\Documents\Visual Studio 2013\Projects\HomeWork\ConvertTemper\bin\Debug\ConvertTemper.dll");

Type type=assembly.GetType("ConvertTemper.ConvertTemperatory");

var instance = Activator.CreateInstance(type);

instance.GetType().GetMethods().ToList().ForEach(Console.WriteLine);

var format = instance as IFormatProvider;

string str = String.Format(format, "Hello time {0:Sek}", 50);

Console.WriteLine(str);

if (File.Exists("text.xml"))

WriteXML(str);

else

{

CreateXML();

}

WriteText(str);

}

catch (Exception e)

{

Console.WriteLine(e.Message);

}

Console.ReadKey();

}

}

}