CS371 Quiz 3 Wed Jan 18th, 2012

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Please note that this is a closed book quiz. Complete the document and save it in [\\CS1\CS\_Students\your name\CS371\Quiz\Quiz3.docx](file:///\\CS1\CS_Students\your%20name\CS371\Quiz\Quiz3.docx)

1. (4 points) Write a C# program to write the string “Hello there” to the file C:\Users\Elmo\Desktop\data.txt. [Include the correct namespace].

using System.IO;

string filename = “C:\\Users\\Elmo\\Desktop\\data.txt”;

using(Filestream writer = new Filestream(filename, File.Open, Write))

{

string line = ;

while(line)

writer.Write(line);

}

**[comment: -1 use StreamWriter]**

1. (4 points) Write a C# program to read the text file C:\Users\Elmo\Deskop\data2.txt into a string object. [Include the correct namespace]

using System.IO;

string filename = “C:\\Users\\Elmo\\Desktop\\data.txt”;

using(Filestream reader = new Filestream(filename, File.OpenofCreate,Read))

{

string line = ;

while(line)

reader.Read(line);

}

**[comment: -1 use StreamReader**

**While (reader.ReadLine() != null)**

**{**

**}**

**]**

1. (2 points) What windows form class can you use to allow a user to pick a filename to open.

Filestream

**[comment: -2**

**OpenFIleDialog**

**]**

1. (2 points) Modify the following classes to make them serializable:

[Serialize]

class MyData {

UTF16

BinaryFormatter formatter = new BinaryFormatter();

int [] data = new data[10];

}

[Serialize]

class MyClass {

MyData dataField;

string fieldname;

}

1. (4 points) Write a method to check that the directory name dirname (*passed as a string parameter*) exists, and if it does, list the files and sub-directories in it (print to the Console).

public void checkDirectory(string dirname)

{

string[] directories = Directories.GetDirectory(dirname);

Foreach(string d in directories)

Console.WriteLine(d);

string[] files = Directories.GetFiles(dirname);

Foreach(string f in files)

Console.WriteLine(f);

}

**[Comment: -1**

**Good. Just missing Directory.Exists(dirname)**

**]**

1. You have a window form defined in the class MyMessage.
   1. (2 points) Show how to display the form in the method SpawnChild defined in the class ParentForm.
   2. (2 points) MyMessage needs to return a string and an int to the parent form. Show how to do this by completing the code below. Assume the closeButton\_Click event handler is used to close the form.

Class MyMessage : Form, ParentForm

{

**// public string s { get; set; }**

**// public int i { get; set; }**

private void passData(string news, int newI)

{

ParentForm.i = newI;

ParentForm.s = news;

**// I = newI;**

**// s = newS;**

}

private void closeButton\_Click(Object s, EventArgs e)

{

passData(myTextbox.Text, myLabel.Text);

}

}

Class ParentForm : Form

{

public string s { get; set; }

public int i { get; set; }

private void SpawnChild()

{

MyMessage mymessage = new MyMessage();

Mymessage.Show(); **// MyMessage.ShowDialog()**

**// access mymessage.s and mymessage.i for results**

}

}

**[-2]**

**True/False** Questions (each question is worth 2 points)

\_\_F\_\_ A windows form **cannot** inherit properties from other windows form.

\_\_T\_\_ The **using** statement executes the **Dispose()** method automatically.

\_\_T\_\_ The **Visible** property is available in every windows GUI control.

\_\_T\_\_ A **BinaryFormatter** object can be used to serialize **ANY** serializable object.

\_\_F\_\_ A **FileStream** object is needed to read an image file**. [2]**