BAI3110 - HTTP Assignment

_____
Name

Referring to: http://www.w3.org/Protocols/rfc2616/rfc2616.html

1.   What is the main purpose of HTTP?

      _____

2.   What is the current version of HTTP?

      _____

3.   HTTP works with several different protocols (or layers). Fill in the following table placing the
      highest order protocol at the top.

Protocol Stack

4.   Place the following HTTP sequence in the correct order.

Order	Process
	Browser passes request to Web server
	User types request in Web browser
	Web server responds with resources
	Connection closed
	Browser initiates connection to Web server

5.   List the 8 operations that can be performed when requesting a URL.

Operation	Description

6. Requests have a returned value which describes problems (if any) occurred. These values are in a given range. Fill in the following table showing what the different ranges indicate.

Range	Class Definition	Number of Messages
100 – 199		
200 – 299		
300 – 399		
400 – 499		
500 - 599		

7. What is the difference between a GET and a POST request?

_____

_____

_____

_____

8. How many Header fields exist? For each version?

_____

_____

9. Use telnet to fetch a page from a server. A sample page could be http://www.acme.com/index.htm or http://www.nait.ab.ca/default.htm. List the commands you used to accomplish this. If the returned page is too large us a HEAD request.

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10. Section 3.7.1 mentions Canonicalization, what does this mean? Give an example.

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11. Type in and run the following program which will display all of the HTTP header information for the WebForm: (Microsoft example, not my code)

```vb
Imports System.Collections.Specialized

Public Class WebForm1
    Inherits System.Web.UI.Page

    Private Sub Page_Load(ByVal sender As System.Object, ByVal e As _
System.EventArgs) Handles MyBase.Load

        Dim loop1, loop2 As Integer
        Dim arr1(), arr2(), arr3() As String
        Dim coll As NameValueCollection

        ' Load ServerVariable collection into NameValueCollection object.
        coll = Request.ServerVariables
        ' Get names of all keys into a string array.
        arr1 = coll.AllKeys
        For loop1 = 0 To arr1.GetUpperBound(0)
            Response.Write("Key: " & arr1(loop1) & "<br>")
            arr2 = coll.GetValues(loop1) ' Get all values under this key.
            For loop2 = 0 To arr2.GetUpperBound(0)
                Response.Write("Value " & CStr(loop2) & ": " &  _
        Server.HtmlEncode(arr2(loop2)) & "<br>")
            Next loop2
        Next loop1
    End Sub

End Class
```

What is the server software being used?   _____

What content type is being returned?   _____

12.   Download Fiddler, a Web Debugging Proxy from
        http://www.fiddler2.com/Fiddler2/version.asp

        (If you are unable to installer Fiddler ask your instructor for help)

Run the fiddler executable, then start a new browser instance (tested with IE)
Enter the URL www.acme.com into the browser

What line in the Web Sessions is the Acme.com root site loaded? _____
What is the response code? _____

Select the Acme.com line from the previous step by clicking it with your mouse.

View and record the Request and Response headers by using the appropriate Inspectors, Raw mode
will show the most information. Don't write down the cookie contents.