Name: __________________
please type or print your name

EE-WBC Exam No. 1 (100pts. - 20% of the final grade)

General Remarks
Do not use back side for answers. Back side of this test will not be graded. Attach more pages if necessary. Midterm progress grade will be calculated based on this exam (70%) and homework (30%).

Problem Set 1 – HTML 4.01

Problem 1a (10pts.)
In HTML 4.01: How would you code text that is supposed to appear as shown. Web browser displays:

C   =    A   &    B  ;

Your code: (do pay attention to spacing between characters)

Problem 1b (10pts.)
In HTML 4.01 Strict what will a Web browser display if it encounters the following code in a body of a Web page. Assume standard typical Web browser style with underlined links. Please pay attention to new lines, capitalization, font size, type, align and underlining. HTML code:

\begin{verbatim}
< p > O N E < / p > < p > T W O < / p > < p > T h r e e < / p >
\end{verbatim}

Web browser displays:

Problem 1c (10pts.)
Please consider the following HTML code fragment inside the body of a Web page. Answer the questions about the formatting mechanism of CSS by indicating the color used by a CSS compatible Web browser to format each paragraph.

\begin{verbatim}
<p>\textbf{This paragraph is in _________ color.}</p>
\end{verbatim}

Total errors this page: ___
**Problem Set 2 – JavaScript**

**Problem 2a (15pts.)**
Please answer that question by providing very short answers to the following three questions:

Q: How to call a function when someone clicks on an HTML document entity defined by an opening and closing HTML tags? (which is not necessarily an anchor tag!) // for example: <img...> or <p...>...</p>

Answer:

Q: How to “include” a file that contains only JavaScript code into an HTML file?

Answer:

Q: How to check if your Web page is not inside a frame?

Answer:

**Problem 2b (15pts.)**
Please provide the code for a JavaScript function called ValidateBBB() that is run when a button is clicked. The function should check if the content of the textfield bbb represents a number between 50 and 90. If it does then the textfield background should be set to green. Otherwise, it should be set to red. Hint: This question evaluates if how easily you can look up new things that you never did before in JavaScript reference. Check with the “Webmaster in Nutshell” JavaScript reference regarding how to access relevant style property of the bbb object.

```html
<form name="aaa">
    <input name="bbb" type="text" value="" onChange="ValidateBBB();" />
</form>
<script type="text/JavaScript">
// Answer: (write the function code in JavaScript below)
</script>
```

**“Prototype” for the question 3b on the next page:**

```java
public static int Integer::parseInt(String s) throws NumberFormatException;
```
Problem Set 3 – Java

Problem 3a (20pts.)
What numbers are printed to the standard output when this program is run?

class Data {
    int x;
    static int y;
}

class Test {
    public static void main(String[] A) {
        Data one = new Data(), two = new Data();
        one.x = 11; one.y = 12; two.x = 13; two.y = 14;
        System.out.println(""+one.x+""+one.y+""+two.x+""+two.y);
        two = one;
        one.x = 21; one.y = 22; two.x = 23; two.y = 24;
        System.out.println(""+one.x+""+one.y+""+two.x+""+two.y);
    }
}

Problem 3b (20pts.)
Answer the questions regarding exceptions feature and error flow for the following four functions:

static public int FS_A(String s) {
    int var = -1;
    try {
        var = Integer.parseInt(s);
    } catch (Exception e) { }
    return(var);
}

static public int FS_B(String s) throws Exception {
    int var = -1;
    try {
        var = Integer.parseInt(s);
    } catch (Exception e) { }
    return(var);
}

static public int FS_C(String s) throws Exception {
    int var = Integer.parseInt(s);
    return(var);
}

static public int FS_D(String s) {
    int var = Integer.parseInt(s);
    return(var);
}