Web Development – Mr. Turner

Project – Phone Company

**Project Overview**

The phone company needs to create a page so that executives can log in and see a list of customer numbers, their plans, and their monthly totals. You are assigned to write the output for the page.

**The Simulation**

Since there is no way to retrieve stored data, you will ***simulate*** the data by creating between 50 and 100 customers (to be determined randomly). You will use a random generator to populate all of the necessary customer information. You will use your randomly generated customers to generate the data described and output the results

**The Page**

There are 3 possible plans in which customers can be enrolled.

1. Basic: $19.99 - Customers receive 1 GB of data and are charged 10 cents per MB (a GB is 1000 MBs) over that.
2. Comprehensive: $24.99 - Customers receive 4 GB of data and are charged 25 cents per MB over that.
3. Suckers: $4.99 - Customers pay 2 cents per MB.

In addition to the plan, each customer has the following data:

1. Last Name
2. First Name
3. A ten digit telephone number - the number can be generated randomly, but ***cannot*** have any leading zeros.
4. The number of MBs of data used in the month (between 100 and 10,000).

For each customer, output the data listed above (including the name of the plan) and the cost of that customer’s monthly bill.

**Display**

Ideally, you will display the data in a well formatted table. Since the number of customers will vary, you’ll need to build the rows and cells dynamically. Remember that this is essentially a spreadsheet. It should be easy on the eyes with simple, yet attractive design (no Pokemon battling in the background).

**Enhancements**

Compile a row of totals including the number of people registered for each plan and the average totals charged, by plan.

Compile an analysis of which plan is the best for each customer by calculating their bills using other plans. Then make a recommendation as to which plan would work best for that person.

Based on the above analysis, determine which plan is the best for the customer by figuring out which plan has the best percentage of customers with lower bills.

**Programming Requirements**

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| * You must code your own HTML and CSS. Use of a drag and drop interface or the usage of code downloaded from the internet is not permitted. |
| * Use of deprecated code is not permitted. Use an HTML 5 reference as your guide. |
| * Your home page must be named *index.html*. |
| * You must comment your name into the top of every page. |
| * Your code must be structured in a consistent and legible manner |
| * Your text must be organized through the use of sectioning tags (div, span, p, h1 – h6). Tables are acceptable for data but not for page design. |
| * Your interface must be smooth and easy to figure out for a client. |
| * Your pages must be formatted using CSS. |