Joey Jiemjitpolchai 2/12/16

Small Application Plan

Project: Phone Company

The pieces of information that must be tracked are the plans, user information, and number of rows. The plans and user information will be stored in arrays. The user information will be split into 2 arrays, one for last name and first. The 10 digit phone number will be randomly generated with 10 random number generations with a condition where a zero may not lead in the area code. The MB will be randomly generated with a number from 100 – 10000. There will also be an array that contains all the customer information in the order of Last name, first, phone number, MB, plan, and monthly bill. The number of items in the array will be kept constant which will be the number of cells in a row. In order to keep track of how many rows there will be a counter. Another piece of information that will be tracked is the total monthly bill which will be calculated through a function, and tracked with variables of the plan, and MB.

The functions I need are a lot of random number generators, a constructor function for the customer information array, and a function to dynamically edit the table. I will need random number generators to create a number that number will represent the index of whatever array I am working with, and I will pull out that information. Another use for the random number generator would be to create the number of MB and phone number with a condition to prevent leading zeros. I will also need a function to calculate the monthly bill.

The program begins with multiple arrays, last name, first, and plans. Each array will already be initialized with information. These arrays work with a random number generator from 0 to length of array. This number will represent the index, pull out that information and store it. This information will be passed in as a parameter for the construction function for the customer information array. To create the phone number there will first be a condition to prevent leading zeros, and then randomly generate a number 10 times, each number will be .push() into the phone number array, that information will be passed into the constructor. MB a randomly generated number from 100 – 10000 will be passed into the constructor. Monthly bill will be created by taking MB and conforming to the rules of the plan selected for each customer. Dynamic tables will be created by taking the number of customers which will be represented by a counter and add a new row based on that counter then display.