CSC120 – Computer Science I

Assignment 4

March 6th, 2019

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1. Define a function/method that takes a password as a parameter and print whether the password is valid or not. In order for the password to be valid, it has to meet the following criteria:
    a. A Password must be at least 8 characters long
    b. A password must contain either '@', '.', or '$'

Your program should prompt the user to enter a password, then pass it to the defined function to check whether it is valid or not. Print a message to the user to alert of the result (valid/invalid). *See the below demonstration for contains function.*

3. Write 2 functions: sum and average that loop through the below array and return the average or sum of the numbers in the array.
Prompt the user to choose whether to sum up the values or average, then invoke the required function to display the result.

int[] array = {10, 20, 50, 90, 1, 9, 90, 105};

2. Define a function that takes a string as a parameter and check whether it is Palindrome or not. A Palindrome String is a String that reads from left to right the same.

```
// Java program to demonstrate working
// contains() method
class Gfg {

    // Driver code
    public static void main(String args[])
    {
        String s1 = "My name is GFG";

        // prints true / Boolean
        // can be checked with if (s1.contains("CGF"))
        System.out.println(s1.contains("GFG"));

        // prints false
        System.out.println(s1.contains("geeks"));
    }
}
```

```
/**
 *
 * @author:      yourName
 * Assignment:   Assignment #x
 * Date:         submission date
 * Description:  briefly, describe what the program does
 * Input:        input that the program expects (if any)
 * Output:       what does the program return
 *
 * Bugs:         write here if there is any bug that
                causes the program   to crash/terminate
 */
```

Email me and our TA with the email subject CSC120 assignment4 the .java file(s) of your program and a screenshot of the console that shows the output (i.e., compiled code).