CSCI 2001-52 Object Oriented Programming (CS1)

Spring 2022

**Assignment #7 – Password Verifier**

Chapter 9 (Text Processing and More about Wrapper Classes)

*The assignment meets the following Student Learning Outcome:*

*Apply consistent documentation and program style standards that contribute to the readability and maintainability of software.*

*Develop, design, analyze, and implement logic within a program that solves a problem with a finite number of operations.*

*Design and develop programs that implement fundamental logic structures of sequence, selection, and repetition.*

*Decompose problems into clearly defined sub-problems based on program requirements.*

Points: 20

**Problem Description:**

Imagine you are developing a software package for Amazon.com that requires users to enter their own passwords. Your software requires that users’ passwords meet the following criteria:

* The password should be at least six characters long.
* The password should contain at least one uppercase and at least one lowercase letter.
* The password should have at least one digit.

Write a class that verifies that a password meets the stated criteria. Demonstrate the class in a program that allows the user to enter a password and then displays a message indicating whether it is valid or not.

If the password is not valid, tell the user what part of the password is not valid i.e. password must be at least 6 char long or password must contain a lowercase letter or password must contain an uppercase letter or password must have a digit.

Other Requirements:

1. Add Comments in your program.

2. The program should have proper formatting.