

5. Password Verifier (Ch 9)

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.

9. Sum of Digits in a String (Ch 9)

Write a program that asks the user to enter a series of single digit numbers with nothing separating them. The program should display the sum of all the single digit numbers in the string. For example, if the user enters 2514, the method should return 12, which is the sum of 2, 5, 1, and 4. The program should also display the highest and lowest digits in the string.

(Hint: Convert the string to an array.)