Password Checker

The PasswordChecker is a simple C# console application that prompts the user to enter a password and checks its strength. The password strength is determined based on several factors such as length, the presence of uppercase and lowercase characters, numbers, and special characters, and pattern.

Main Method

The Main method of the Program class is the starting point of the application. It prompts the user to enter a password and repeatedly calls the Check Password method until the user provides a password that is considered strong enough. If the password is weak, the user is given the option to enter a new password. The feedback for each password is displayed in different colors, green for strong passwords, yellow for weak passwords, and red for passwords that do not meet the minimum requirements.

Check Password Method

The Check Password method is responsible for checking the strength of the password. It checks the length of the password and returns "Red: The password is not strong enough" if the length is less than 12 or greater than 64. It then checks the presence of uppercase characters, lowercase characters, numbers, and special characters. If any of these are missing, it returns "Red: The password is not strong enough". The method also checks for patterns in the password, such as sequences of consecutive letters or numbers, and returns "Yellow: The password is OK but considered weak" if any are found. If the password meets all requirements, it returns "Green: The password is OK".

Conclusion

The PasswordChecker is a basic password strength checker that provides feedback to the user on the strength of the password entered. It can be useful for applications where users need to create strong passwords.