

Task- 1(Easy)

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LET'S GET STARTED

Task: Create a Password Strength Checker

## **Description:**

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A Python program to analyze passwords and determine if they are weak, okay, or strong. Assess password strength based on length and other factors.

## **Steps to Follow:**

•Write Code:

import re

class PasswordStrengthChecker:

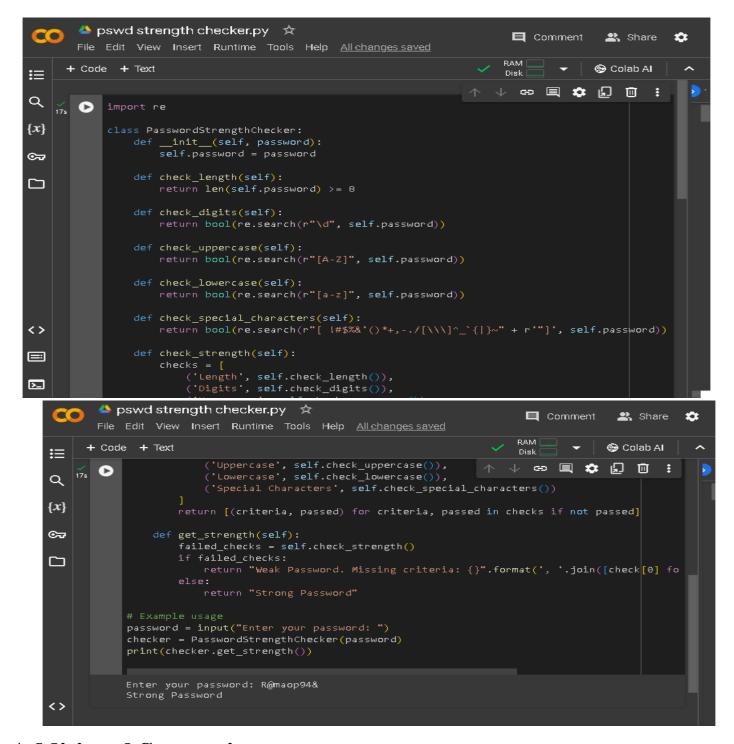
def \_\_init\_\_(self, password):
 self.password = password

def check\_length(self):
 return len(self.password) >= 8

```
def check_digits(self):
  return bool(re.search(r"\d", self.password))
def check_uppercase(self):
  return bool(re.search(r"[A-Z]", self.password))
def check_lowercase(self):
  return bool(re.search(r"[a-z]", self.password))
def check_special_characters(self):
  return bool(re.search(r"[ !#$%&'()*+,-./[\\\]^_`{|}~" + r'"]',
self.password))
def check_strength(self):
  checks = [
     ('Length', self.check_length()),
     ('Digits', self.check_digits()),
     ('Uppercase', self.check_uppercase()),
     ('Lowercase', self.check_lowercase()),
     ('Special Characters', self.check_special_characters())
  return [(criteria, passed) for criteria, passed in checks if not passed]
def get_strength(self):
  failed_checks = self.check_strength()
```

```
if failed_checks:
    return "Weak Password. Missing criteria: {}".format(',
    '.join([check[0] for check in failed_checks]))
    else:
        return "Strong Password"

# Example usage
password = input("Enter your password: ")
checker = PasswordStrengthChecker(password)
print(checker.get_strength())
```



## **Additional Suggestions:**

- ✓ Length of the password should be with minimum of 8characters
- ✓ Must contain combination of alphabets(uppercase,lowercase),numbers,special characters.
- **✓** Password should be unique and difficult to crack

## **Conclusion:**

This project is implementing a python program to understand the password strength and to improve security system. Due to strong passwords avoid of easy data loss, avoid easy crack of devices.