## Vault of Codes

Mini Project: Create a Password Strength Indicator for a login page of our website.

## Program:

import re

```
def check_password_strength(password):
  # Define regular expressions to check for various password criteria
  length_regex = r'^.{8,}$'
  uppercase_regex = r'[A-Z]'
  lowercase regex = r'[a-z]'
  digit_regex = r'\d'
  special\_char\_regex = r'[!@#$%^&*()]'
  # Initialize a score for the password strength
  score = 0
  # Check password length
  if re.match(length_regex, password):
    score += 2
  elif re.match(r'^.{6,7}$', password):
    score += 1
  # Check for uppercase letters
  if re.search(uppercase_regex, password):
    score += 2
  # Check for lowercase letters
  if re.search(lowercase_regex, password):
    score += 2
  # Check for digits
  if re.search(digit_regex, password):
    score += 2
  # Check for special characters
  if re.search(special_char_regex, password):
    score += 2
  # Determine the strength based on the total score
  if score >= 8:
    return "Strong"
  elif score >= 5:
    return "Medium"
  else:
```

## return "Weak"

# Example usage:
password = input("Enter your password: ")
strength = check\_password\_strength(password)
print("Password Strength: " + strength)

Output:

Enter your password: Vaultofcodes123

Password Strength: Strong