

~\Downloads\program projects\web password strength.py

```
1  '''
2  Password strength checker
3  -----
4  '''
5
6  import string
7  import getpass
8
9  def check_password_strength():
10 password = getpass.getpass('enter the password: ')
11 strength = 0
12 remarks = ''
13 lower_count = upper_count = num_count = wspace_count = special_count = 0
14
15 for char in list(password):
16     if char in string.ascii_lowercase:
17         lower_count += 1
18     elif char in string.ascii_uppercase:
19         upper_count += 1
20     elif char in string.digits:
21         num_count += 1
22     elif char == ' ':
23         wspace_count += 1
24     else:
25         special_count += 1
26
27     if lower_count >= 1:
28         strength += 1
29     if upper_count >= 1:
30         strength += 1
31     if num_count >= 1:
32         strength += 1
33     if wspace_count >= 1:
34         strength += 1
35     if special_count >= 1:
36         strength += 1
37
38     if strength == 1:
39         remarks = ('that\'s a very bad password.'
40                   'change it soon as possible')
41     elif strength == 2:
42         remarks = ('that\'s a weak password.'
43                   'you should consider a tougher password')
44     elif strength == 3:
45         remarks = ('that\'s a okay password.'
46                   'make it little stronger')
47     elif strength == 4:
48         remarks = ('very good just some adjusts'
49                   'add some few more texts')
50     elif strength == 5:
51         remarks = ('that\'s really excellent password'
52                   'No hacker wonn\'t able to understand')
53
54     print('your password has:-')
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54     print(f'{lower_count} lowercase letters')
55     print(f'{upper_count} uppercase letters')
56     print(f'{num_count} digits')
57     print(f'{wspace_count} whitespaces')
58     print(f'{special_count} special characters')
59     print(f'password score: {strength / 5}')
60     print(f'remarks: {remarks}')
61
62     def check_pwd(another_pw=False):
63         valid = False
64         if another_pw
65             choice = input
66             ('do you want to check another password\'s strength (y/n) : ')
67
68     else:
69         choice = input(
70             'do you want to check another password\'s strength (y/n) : ')
71         else:
72             choice = input
73             ('do you want to check another password\'s strength (y/n) : ')
74     while not valid:
75         if choice.lower() == 'y':
76             return True
77         elif choice.lower() == 'n':
78             print('Exiting...')
79             return False
80         else:
81             print('Invaild input...please try again. \n')
82
83
84     if __name__ == '__main__':
85         print('==== Welcome to Password Strength Checker ====')
86         check_pw = check_pwd()
87         while check_pw:
88             check_password_strength()
89             check_pw = check_pw(True)
90
91
92
93
```