7/2/24, 9:25 PM pw.py

E:\pw.py

```
import random
 2
    import array
3
4
   # maximum length of password needed
   # this can be changed to suit your password length
 5
 6
   MAX LEN = 12
7
8
   # declare arrays of the character that we need in out password
9
   # Represented as chars to enable easy string concatenation
   DIGITS = ['0', '1', '2', '3', '4', '5', '6', '7', '8', '9']
10
11
    LOCASE_CHARACTERS = ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h',
                        'i', 'j', 'k', 'm', 'n', 'o', 'p', 'q',
12
                        'r', 's', 't', 'u', 'v', 'w', 'x', 'y',
13
14
                        'z'1
15
   UPCASE_CHARACTERS = ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H',
16
                        'I', 'J', 'K', 'M', 'N', 'O', 'P',
17
                        'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y',
18
19
20
   SYMBOLS = ['@', '#', '$', '%', '=', ':', '?', '.', '/', '|', '~', '>',
21
22
            '*', '(', ')', '<']</pre>
23
24
   # combines all the character arrays above to form one array
25
   COMBINED_LIST = DIGITS + UPCASE_CHARACTERS + LOCASE_CHARACTERS + SYMBOLS
26
27
   # randomly select at least one character from each character set above
28
   rand_digit = random.choice(DIGITS)
29
   rand_upper = random.choice(UPCASE_CHARACTERS)
30
    rand lower = random.choice(LOCASE CHARACTERS)
31
   rand_symbol = random.choice(SYMBOLS)
32
   # combine the character randomly selected above
33
   # at this stage, the password contains only 4 characters but
34
35
   # we want a 12-character password
   temp_pass = rand_digit + rand_upper + rand_lower + rand_symbol
36
37
38
39
   # now that we are sure we have at least one character from each
   # set of characters, we fill the rest of
40
41
   # the password length by selecting randomly from the combined
42
   # list of character above.
43
   for x in range(MAX LEN - 4):
44
        temp pass = temp pass + random.choice(COMBINED LIST)
45
        # convert temporary password into array and shuffle to
46
47
        # prevent it from having a consistent pattern
48
        # where the beginning of the password is predictable
        temp pass list = array.array('u', temp pass)
49
50
        random.shuffle(temp pass list)
51
52
   # traverse the temporary password array and append the chars
53
   # to form the password
54 | password = ""
```

58

print out password
print(password)