

```

import random

import array

MAX_LEN = 12

DIGITS = ['0', '1', '2', '3', '4', '5',
           '6', '7', '8', '9']

LOCASE_CHARACTERS = [
    'a', 'b', 'c', 'd', 'e', 'f', 'g',
    'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p',
    'q', 'r', 's', 't', 'u', 'v', 'w',
    'x', 'y', 'z'

UPCASE_CHARACTERS = [
    'A', 'B', 'C', 'D', 'E', 'F', 'G',
    'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P',
    'Q', 'R', 'S', 'T', 'U', 'V', 'W',
    'X', 'Y', 'Z'

]

SYMBOLS = [
    '@', '#', '$', '%', '=', ':', '?', ',', '/', '~', '>', '*', '(', ')', '<',

]

COMBINED_LIST = DIGITS +

UPCASE_CHARACTERS + LOCASE_CHARACTERS +

SYMBOLS

rand_digit = random.choice(DIGITS)

rand_upper = random.choice(

UPCASE_CHARACTERS)

rand_lower = random.choice(

LOCASE_CHARACTERS)

rand_symbol = random.choice(SYMBOLS)

```

```
temp_pass = rand_digit + rand_upper +  
rand_lower + rand_symbol  
for x in range (MAX_LEN - 4) :  
    temp_pass = temp_pass + random.  
choice (COMBINED_LIST)  
    temp_pass_list = array. array('u',  
temp_pass)  
    random.shuffle(temp_pass_list)  
password =  
for x in temp_pass_list:  
    password = password + x  
print (password)
```