1. Password Generator

```
import random
import array
MAX_LEN = int(input("enter the size of the password that to be generated must be greater than 4:"))
DIGITS = ['0', '1', '2', '3', '4', '5', '6', '7', '8', '9']
LOCASE_CHARACTERS = ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', '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', '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)
OUTPUT:
```

Enter the size of the password that to be generated must be greater than $4:\!9$

M@t!0ncut