

In [14]: *# Method 1 - Without shuffle the final password such as letters,symbols,numbers.*

```
import random

letters = ['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','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 = ['!','@','#','$','%','^','&','*','(',')','+']

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

print("Welcome to the Password Generator!")

n_letters = int(input("How many letters would you like in your password? "))

n_symbols = int(input("How many symbols would you like? "))

n_numbers = int(input("How many numbers would you like? "))

password= ""

for i in range(1,n_letters+1):
    char = random.choice((letters))
    password = password + char

for i in range(1,n_symbols+1):
    signs = random.choice(symbols)
    password+=signs

for i in range(1,n_numbers+1):
    num = random.choice((numbers))
    password+=num
    #password+=random.choice(numbers)

print(password)
```

Welcome to the Password Generator!  
How many letters would you like in your password? 4  
How many symbols would you like? 4  
How many numbers would you like? 4  
jWAd\$#!3650

In [1]: *# Method 2 - shuffle the final password such as letters, symbols,numbers.*

```
import random

letters = ['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','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 = ['!','@','#','$','%','^','&','*','(',')','+']

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

print("Welcome to the Password Generator!")

n_letters = int(input("How many letters would you like in your password? "))

n_symbols = int(input("How many symbols would you like? "))

n_numbers = int(input("How many numbers would you like? "))

password_list = []

for i in range(1,n_letters+1):
    char = random.choice((letters))
    password_list += char
    #password_list.append(char)

for i in range(1,n_symbols+1):
    signs = random.choice(symbols)
    password_list+=signs
    #password_list.append(signs)

for i in range(1,n_numbers+1):
    num = random.choice((numbers))
    password_list+=num
    #password+=random.choice(numbers)
    #password_list.append(num)

#print(password_list)

random.shuffle(password_list)

#print(password_list)

password = ""

for i in (password_list):

    password+=i

print(password)
```

Welcome to the Password Generator!  
How many letters would you like in your password? 4  
How many symbols would you like? 3  
How many numbers would you like? 2  
t&%m5zj8+

In [ ]: