import random

import string

def generate\_password(length, use\_uppercase, use\_lowercase, use\_digits, use\_symbols):

characters = ''

if use\_uppercase:

characters += string.ascii\_uppercase

if use\_lowercase:

characters += string.ascii\_lowercase

if use\_digits:

characters += string.digits

if use\_symbols:

characters += string.punctuation

if not characters:

raise ValueError("At least one character type must be selected.")

password = ''.join(random.choice(characters) for \_ in range(length))

return password

def main():

print("Password Generator")

print("------------------")

length = int(input("Enter password length: "))

use\_uppercase = input("Include uppercase letters? (y/n): ").lower() == 'y'

use\_lowercase = input("Include lowercase letters? (y/n): ").lower() == 'y'

use\_digits = input("Include digits? (y/n): ").lower() == 'y'

use\_symbols = input("Include symbols? (y/n): ").lower() == 'y'

try:

password = generate\_password(length, use\_uppercase, use\_lowercase, use\_digits, use\_symbols)

print("Generated Password : ", password)

except ValueError as e:

print("Error: ", str(e))

if \_\_name\_\_ == "\_\_main\_\_":

main()