import random

import string

def generate\_password(length):

if length < 4:

print("Password length should be at least 4 characters for security.")

return None

lower = string.ascii\_lowercase

upper = string.ascii\_uppercase

digits = string.digits

symbols = string.punctuation

all\_chars = lower + upper + digits + symbols

password = random.choice(lower) + random.choice(upper) + random.choice(digits) +random.choice(symbols)

password += ''.join(random.choice(all\_chars) for \_ in range(length - 4))

password = ''.join(random.sample(password, len(password)))

return password

try:

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

generated\_password = generate\_password(length)

if generated\_password:

print(f"Generated Password: {generated\_password}")

except ValueError:

print("Please enter a valid number.")