import random

import string

def generate\_password(length, use\_letters=True, use\_numbers=True, use\_symbols=True):

char\_pool = ""

if use\_letters:

char\_pool += string.ascii\_letters

if use\_numbers:

char\_pool += string.digits

if use\_symbols:

char\_pool += string.punctuation

if not char\_pool:

print("Error: At least one character type must be selected.")

return None

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

return password

def main():

try:

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

if length <= 0:

print("Password length must be a positive number.")

return

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

use\_numbers = input("Include numbers? (y/n): ").strip().lower() == 'y'

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

password = generate\_password(length, use\_letters, use\_numbers, use\_symbols)

if password:

print(f"Generated Password: {password}")

except ValueError:

print("Invalid input. Please enter a valid number.")

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

main()

OUTPUT

Enter password length: 10

Include letters? (y/n): y

Include numbers? (y/n): y

Include symbols? (y/n): y

Generated Password: 4Zd&+~TFJ\