import re

def is\_valid\_password(password):

if len(password) < 8:

return False, 'Password must be at least 8 characters long.'

if not re.search(r'\d', password):

return False, 'Password must include at least one number.'

if not re.search(r'[!@#$%^&\*(),.?":{}|<>]', password):

return False, 'Password must include at least one special character.'

return True, 'Password is valid.'

def test\_passwords():

test\_cases = ['abc123', 'abc12345', 'abc123@', 'mypassword1', 'Pass123!', '12345678', 'MyPass@']

for pwd in test\_cases:

print(f'Password: {pwd} - {message}')

if \_\_name\_\_ == '\_\_main\_\_':