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 contain at least one numeric digit"

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

return False, "Password must contain at least one special character"

return True, "Password is valid"

def test\_passwords():

print(valid, msg)

print(valid, msg)

print(valid, msg)

print(valid, msg)

print(valid, msg)

print(valid, msg)

print(valid, msg)

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