import socket

def check\_port(ip, port):

"""

Check if a specific port is open on a given IP address.

Args:

ip (str): The target IP address.

port (int): The target port to check.

Returns:

bool: True if the port is open, False otherwise.

"""

try:

# Create a socket object

sock = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

sock.settimeout(1) # Set timeout for the connection

result = sock.connect\_ex((ip, port)) # Attempt to connect to the IP and port

sock.close() # Close the socket

return result == 0 # Return True if the port is open

except Exception as e:

print(f"Error: {e}")

return False

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

target\_ip = input("Enter the target IP: ")

port = int(input("Enter the port to check: "))

if check\_port(target\_ip, port):

print(f"Port {port} is open on {target\_ip}.")

else:

print(f"Port {port} is closed on {target\_ip}.")