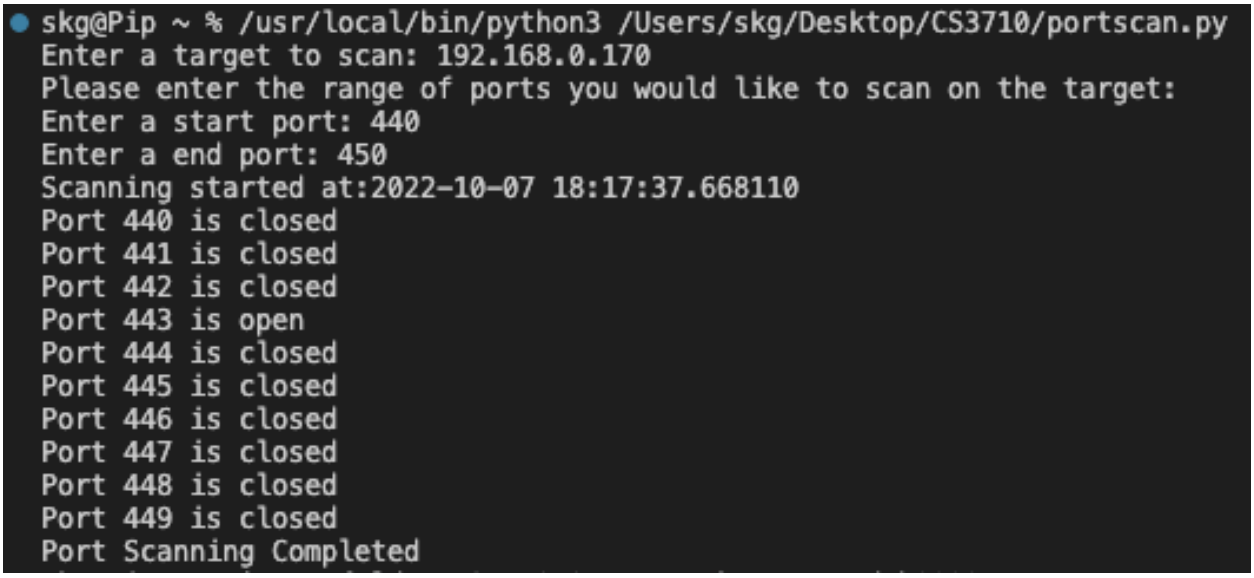
portscan.py

Users > skg > Desktop > CS3710 > portscan.py > ...

```python
import socket
import sys
from datetime import datetime

### Asking for inputs including targets and ranges
target=input("Enter a target to scan: ")
print("Please enter the range of ports you would like to scan on the target:")
range_start = int(input("Enter a start port: "))
range_end = int(input("Enter a end port: "))

### Display Start Time
print("Scanning started at:" + str(datetime.now()))

### Start Scanning
port_open=[]

### Scans ports between range_start to range_end
for port in range(range_start,range_end):

        ### Set up sockets
        s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
        socket.setdefaulttimeout(1)
        try:
                # returns an error indicator
                result = s.connect_ex((target,port))

        except KeyboardInterrupt:
                sys.exit()
        except socket.gaierror:
                sys.exit()
        except socket.error:
                sys.exit()

        ### Display Results
        if result ==0:
                print("Port {} is open".format(port))
                port_open.append(port)
        else:
                print("Port {} is closed".format(port))
        s.close()

### Dealing wiht Errors and exits

print("Port Scanning Completed")
#print(port_open)
```


skg@Pip ~ % /usr/local/bin/python3 /Users/skg/Desktop/CS3710/portscan.py
Enter a target to scan: 192.168.0.170
Please enter the range of ports you would like to scan on the target:
Enter a start port: 440
Enter a end port: 450
Scanning started at:2022-10-07 18:17:37.668110
Port 440 is closed
Port 441 is closed
Port 442 is closed
Port 443 is open
Port 444 is closed
Port 445 is closed
Port 446 is closed
Port 447 is closed
Port 448 is closed
Port 449 is closed
Port Scanning Completed