

## **Practical No: 05**

**Aim:** Implementation of Windows security using firewalls and other tools.

**Tools:** Windows Defender Firewall

### **Description:**

Windows Firewall is a security feature that helps to protect your device by filtering network traffic that enters and exits your device. This traffic can be filtered based on several criteria, including source and destination IP address, IP protocol, or source and destination port number. Windows Firewall can be configured to block or allow network traffic based on the services and applications that are installed on your device. This allows you to restrict network traffic to only those applications and services that are explicitly allowed to communicate on the network.

The default behavior of Windows Firewall is to:

- block all incoming traffic, unless solicited or matching a rule
- allow all outgoing traffic, unless matching a rule

### **Firewall rules**

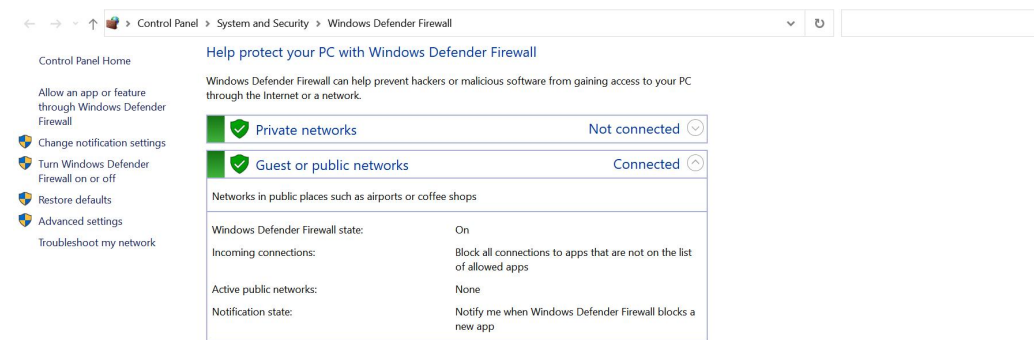
Firewall rules identify allowed or blocked network traffic, and the conditions for this to happen. The rules offer an extensive selection of conditions to identify traffic, including:

- Application, service or program name
- Source and destination IP addresses
- Can make use dynamic values, like default gateway, DHCP servers, DNS servers and local subnets
- Protocol name or type. For transport layer protocols, TCP and UDP, you can specify ports or port ranges. For custom protocols, you can use a number between 0 and 255 representing the IP protocol
- Interface type
- ICMP/ICMPv6 traffic type and code

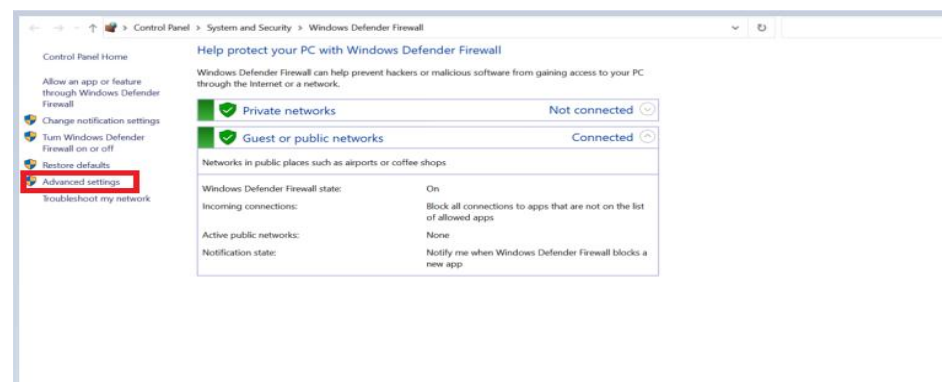
## Implementation:

### How Can You Blocked the Program?

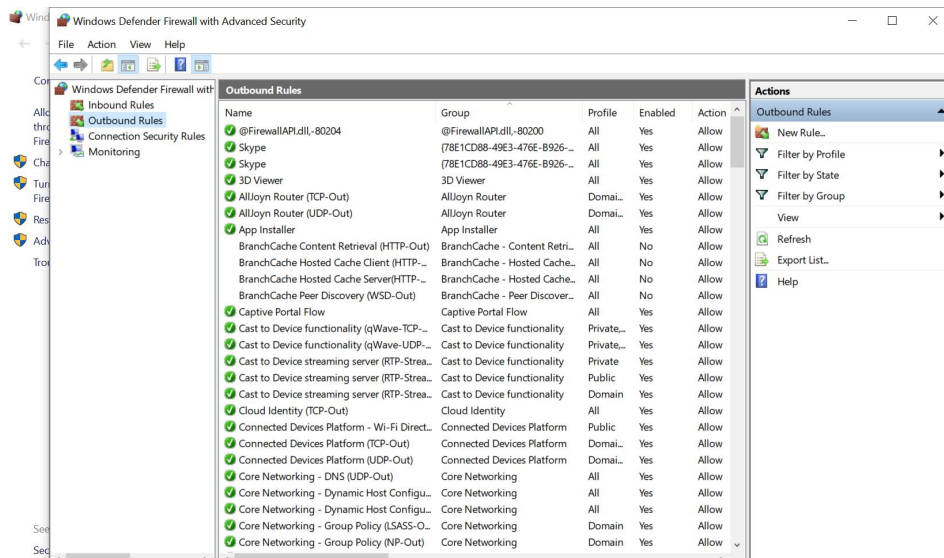
#### Step: 1 Open Windows defender Firewall



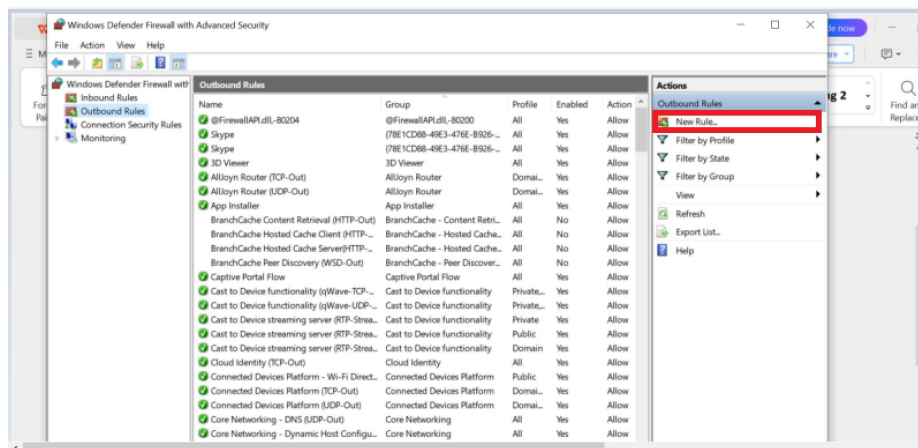
#### Step: 2 Select Advance Settings



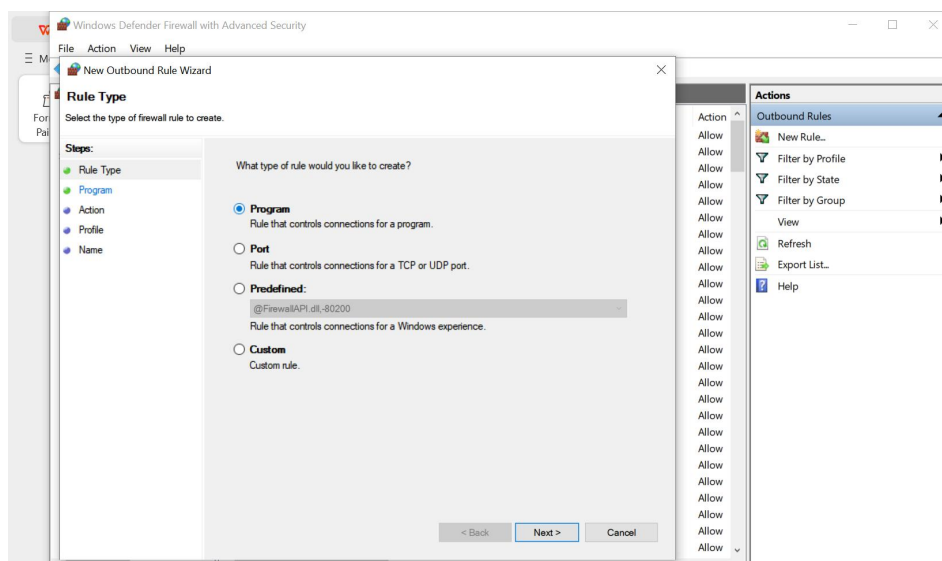
#### Step : 3 Select outbound Rules



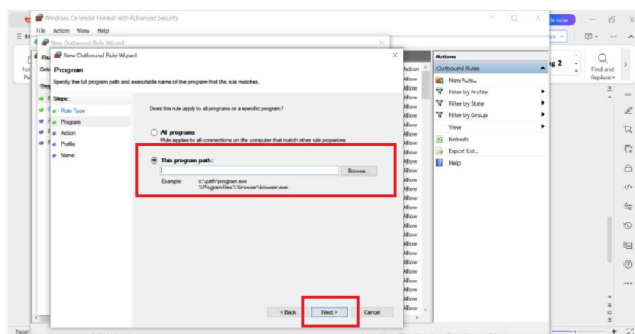
## Step : 4 Select New Rule



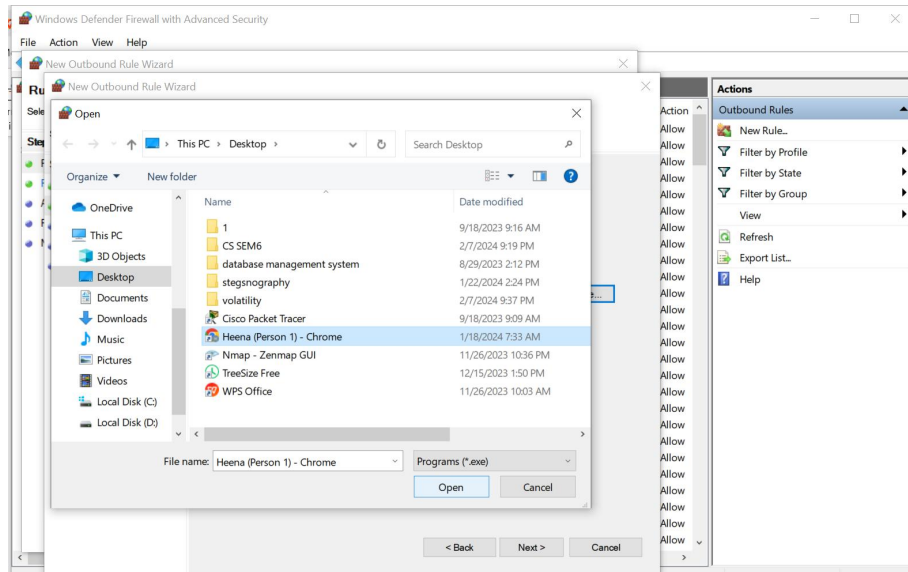
## Step : 5 Select Program and Click on a next Button



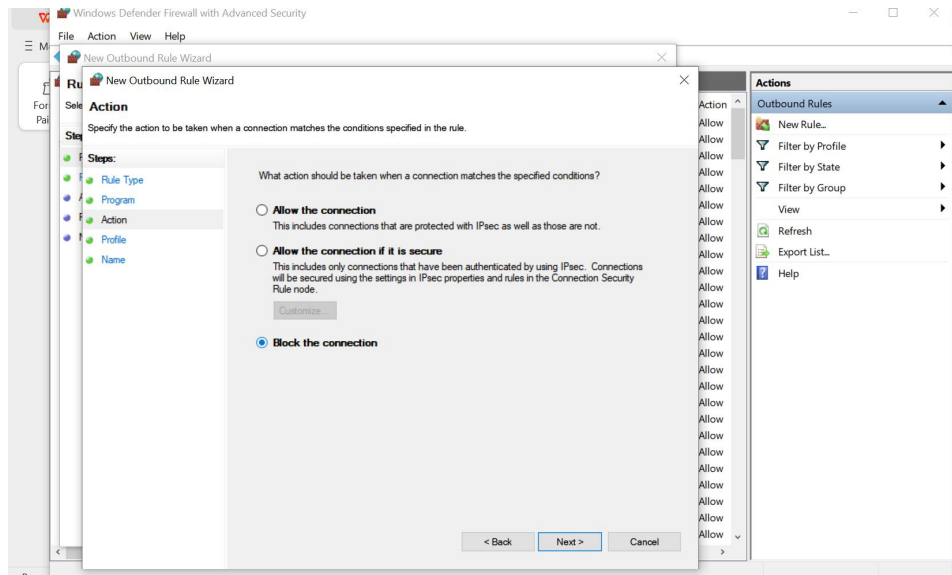
Step : 6 Give the path of Program which you want to Block



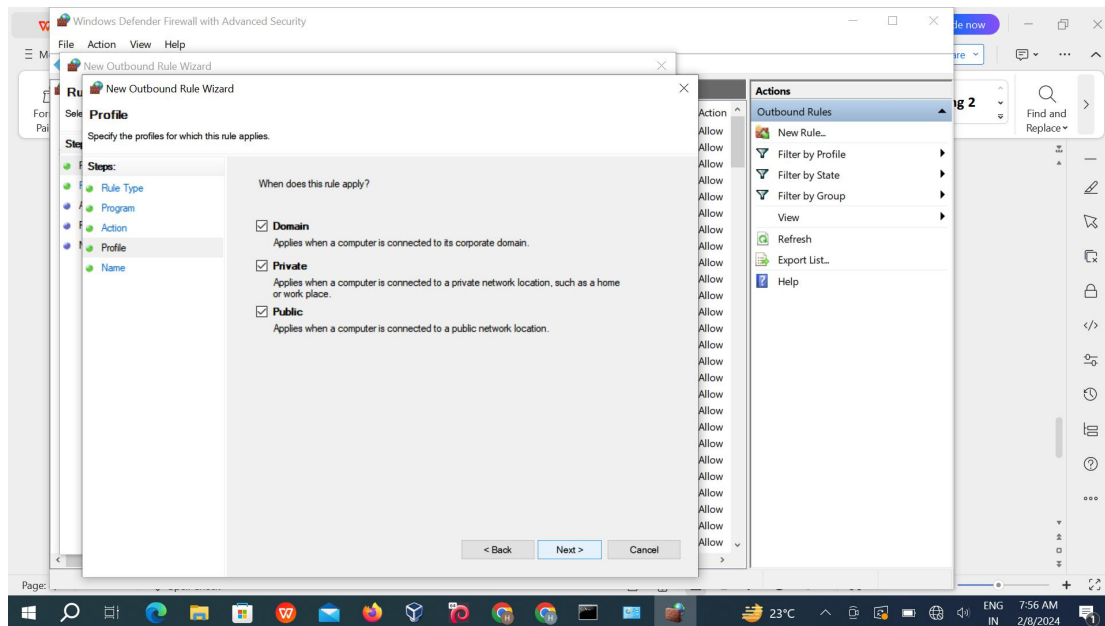
For Example Chrome Browser



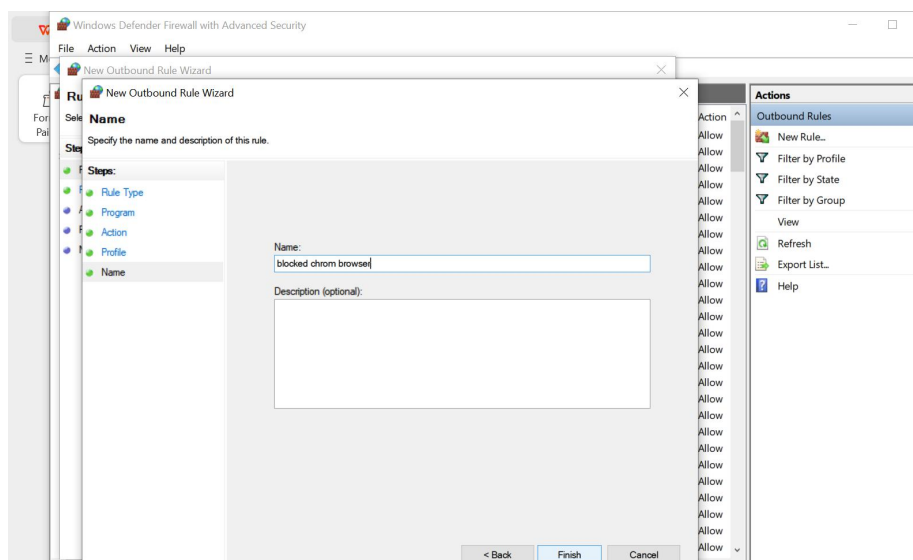
## Step 7 : Select Block Connection Option



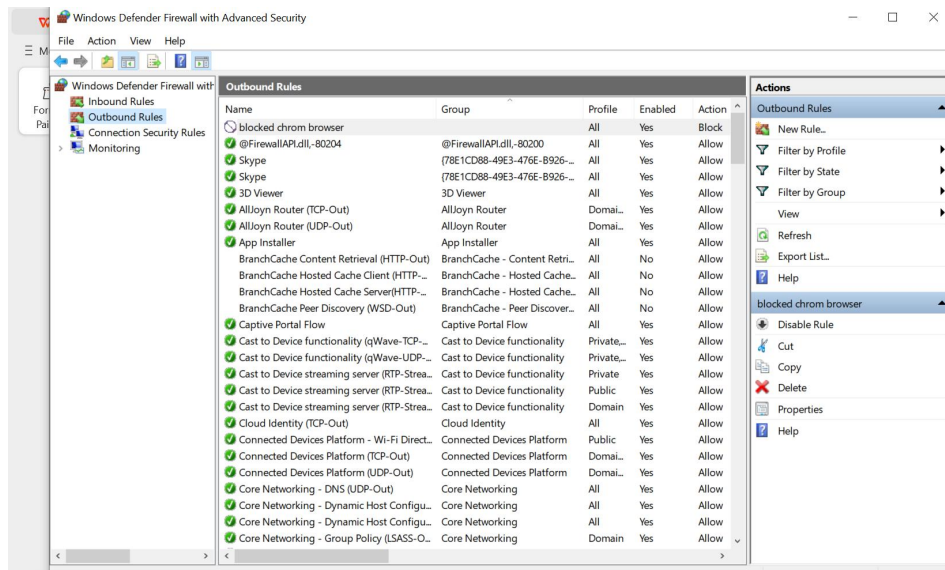
Select all 3 boxes and Click on a next button



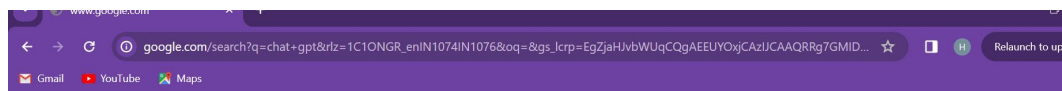
Step : 8 Give a Name to your Created rule and Click on a finish Button



You can see that rule is created



Now go to the Chrome Browser and Search you are not able to access chrome browser.



## This site can't be reached

The webpage at [https://www.google.com/search?q=chat+gpt&rlz=1C1ONGR\\_enIN1074IN1076&oq=&gs\\_lcrp=EgZjaHJvbWUqCQgAEEUYOxjCAzJCAAQRRg7GMIDMgkIBBFGDsYwgMyCQgCEEUYOxjCAzJCAMQRRg7GMIDMgkIBBFGDsYwgMyCQgFEEUYOxjCAzJCAyQRRg7GMIDMgkIBBFGDsYwgPSAQk0MDA4ajBqMTWoAgiwAgE&sourceid=chrome&ie=UTF-8](https://www.google.com/search?q=chat+gpt&rlz=1C1ONGR_enIN1074IN1076&oq=&gs_lcrp=EgZjaHJvbWUqCQgAEEUYOxjCAzJCAAQRRg7GMIDMgkIBBFGDsYwgMyCQgCEEUYOxjCAzJCAMQRRg7GMIDMgkIBBFGDsYwgMyCQgFEEUYOxjCAzJCAyQRRg7GMIDMgkIBBFGDsYwgPSAQk0MDA4ajBqMTWoAgiwAgE&sourceid=chrome&ie=UTF-8) might be temporarily down or it may have moved permanently to a new web address.

ERR\_QUIC\_PROTOCOL\_ERROR