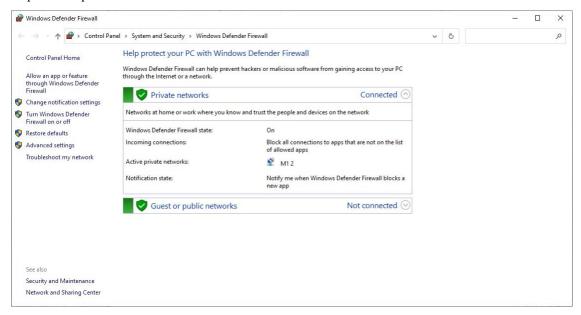
Practical No. 8

Aim: To configure and test firewall rules to control network traffic, filter packets based on specified criteria, and protect network resources from unauthorized access.

We would use firewall to block

- 1) A Port
- 2) A Website

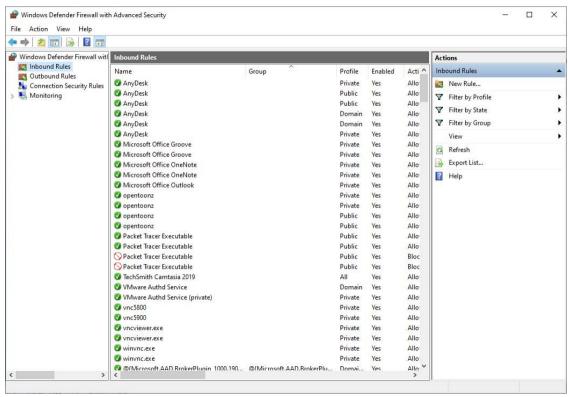
Part 1: Blocking the HTTP and HTTPS (Port 80 and Port 443) using the Firewall Step 2: We open 'Windows Defender Firewall'



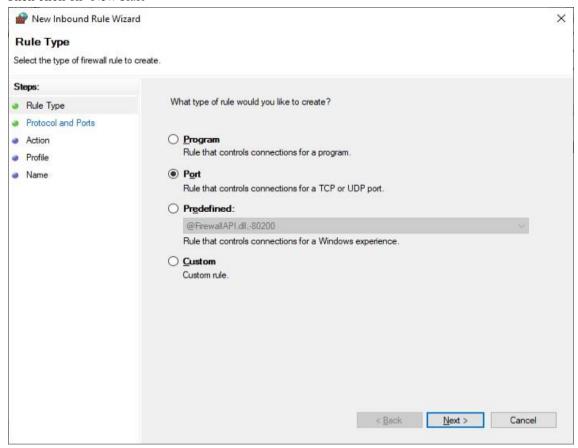
Next we click on 'Advanced settings'



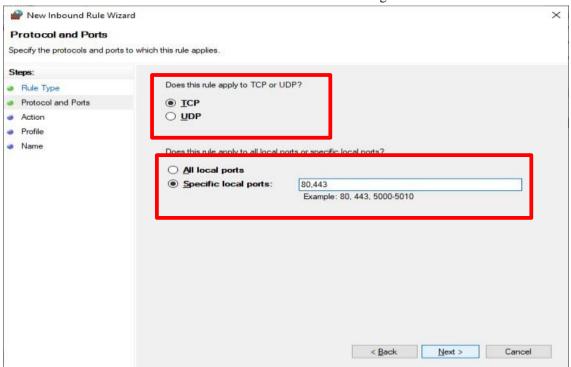
Next we click on 'Inbound Rules'



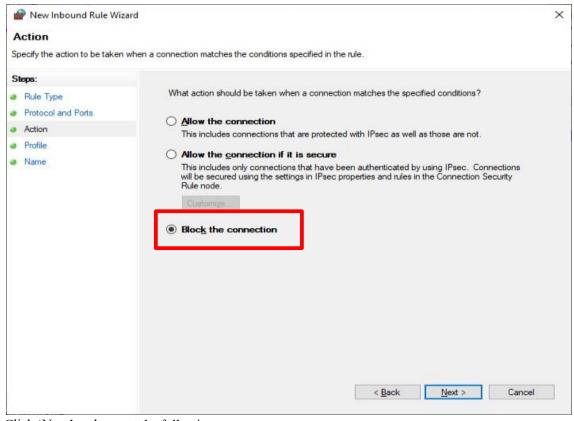
Then click on 'New Rule'



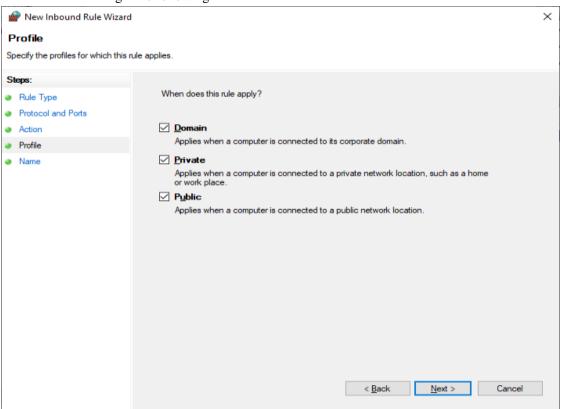
Select the radio button 'Port' and click 'Next' and enter the following



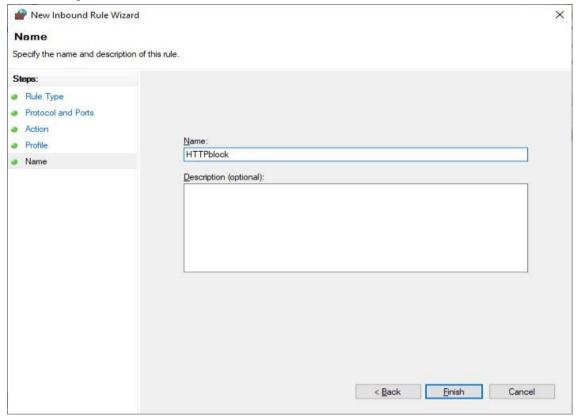
After next, we need to finalise the rule



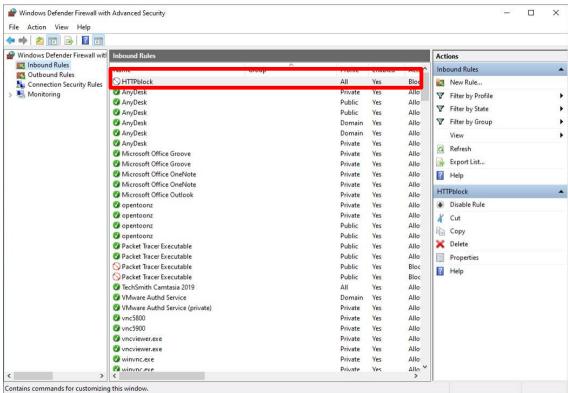
Click 'Next' and we get the following



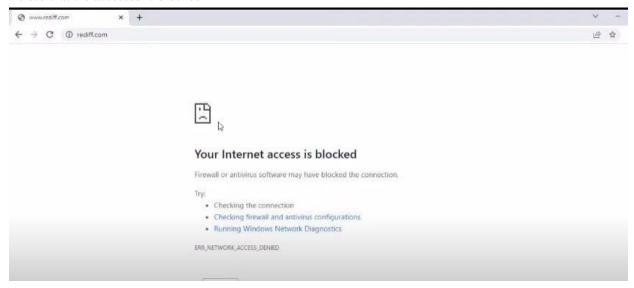
After clicking the 'Next' button we need to name the rule and click finish



The Inbound rule is added



We repeat all the above steps for creating 'Outbound Rules', and then try to access the internet. We see that the accessed is blocked



Part 2: Blocking the website www.android.com

We open the browser and access the website, which is now accessible



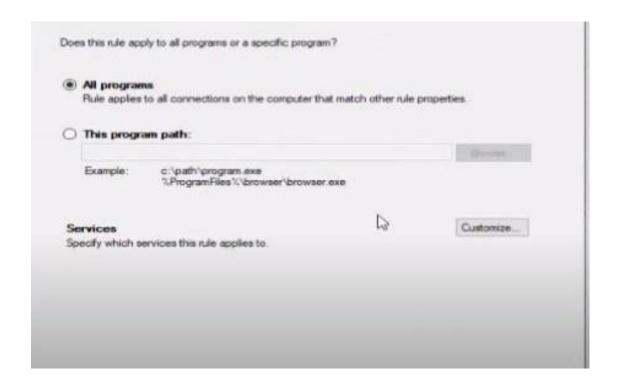
We find the IP addresses of the website using the following command:

nslookup android.com

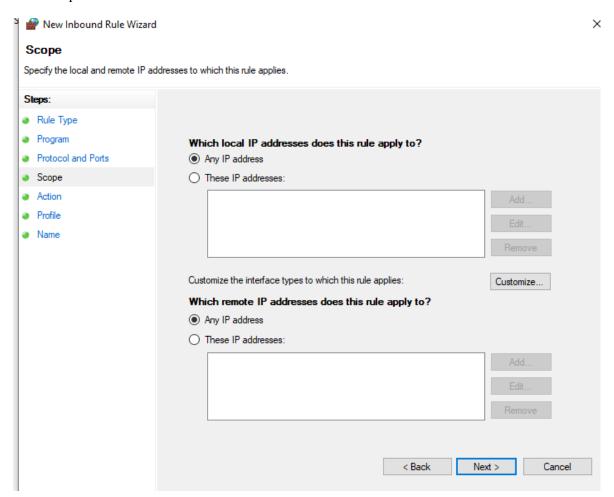
We save the IP addresses

IPv4	216.58.196.68
IPv6	2404:6800:4009:809::2004

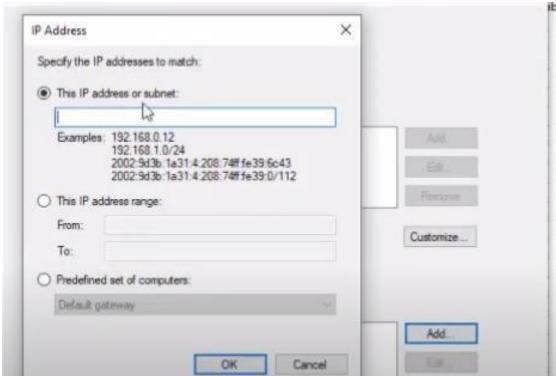
We open the windows Firewall settings and apply the Inbound Rule Select custom



Select scope

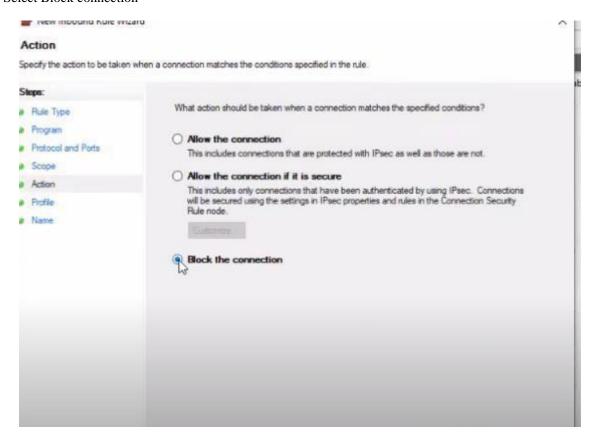


Select These IP addresses and



Insert the IP addresses both IPv4 and IPv6

Select Block connection



Provide a suitable name and finish



Repeat the above for Outbound Rules

Now if we try to access the website www.android.com, it would be blocked

