

Certificate

This is to certify that the practical report entitled

“Practical File for M.Sc. Cyber Security”

is submitted by

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Practical No. 2

Date: 14/Jul/2025

Basic Commands For Powershell

1. Command: cd

Description: Changes the current directory.

Screenshot

```
C:\Users\cyber-2>cd Downloads
C:\Users\cyber-2\Downloads>dir
Volume in drive C has no label.
Volume Serial Number is 7C89-8193

Directory of C:\Users\cyber-2\Downloads

11-07-2025 15:19    <DIR> .
11-07-2025 15:06    <DIR> ..
08-07-2025 14:44      1,474,385,344 android-studio-2025.1.1.13-windows.exe
11-07-2025 15:19      11,031,936 ChromeSetup.exe
11-07-2025 15:20          602 debug.log
03-07-2025 14:08      4,478,939,136 kali-linux-2025.2-installer-amd64.iso
09-07-2025 11:09      3,536,624,151 kali-linux-2025.2-vmware-amd64.7z
11-07-2025 12:12          429,579 Mahir Patel - Lab Manual (1).docx
11-07-2025 12:19          429,579 Mahir Patel - Lab Manual (2).docx
11-07-2025 12:12          429,579 Mahir Patel - Lab Manual.docx
               8 File(s)   9,582,270,206 bytes
               2 Dir(s)  23,642,808,320 bytes free

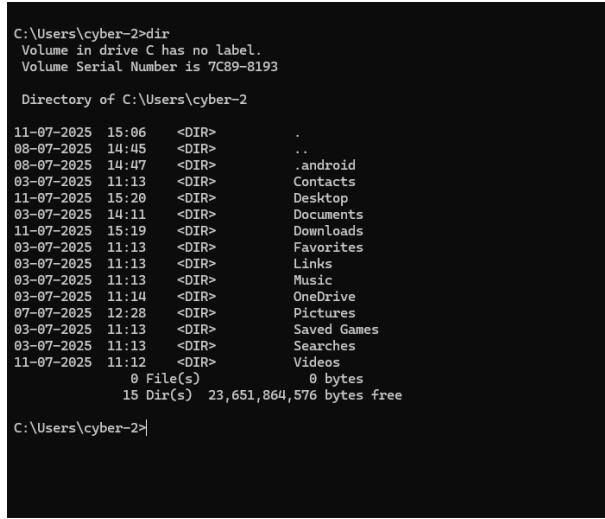
C:\Users\cyber-2\Downloads>
```

Figure 1: Output of cd command

2. Command: dir

Description: Lists the contents of a directory.

Screenshot



```
C:\Users\cyber-2>dir
 Volume in drive C has no label.
 Volume Serial Number is 7C89-8193

 Directory of C:\Users\cyber-2

11-07-2025 15:06 <DIR> .
08-07-2025 14:45 <DIR> ..
08-07-2025 14:47 <DIR> .android
03-07-2025 11:13 <DIR> Contacts
11-07-2025 15:20 <DIR> Desktop
03-07-2025 14:11 <DIR> Documents
11-07-2025 15:19 <DIR> Downloads
03-07-2025 11:13 <DIR> Favorites
03-07-2025 11:13 <DIR> Links
03-07-2025 11:13 <DIR> Music
03-07-2025 11:14 <DIR> OneDrive
07-07-2025 12:28 <DIR> Pictures
03-07-2025 11:13 <DIR> Saved Games
03-07-2025 11:13 <DIR> Searches
11-07-2025 11:12 <DIR> Videos
               0 File(s)    0 bytes
               15 Dir(s) 23,651,864,576 bytes free

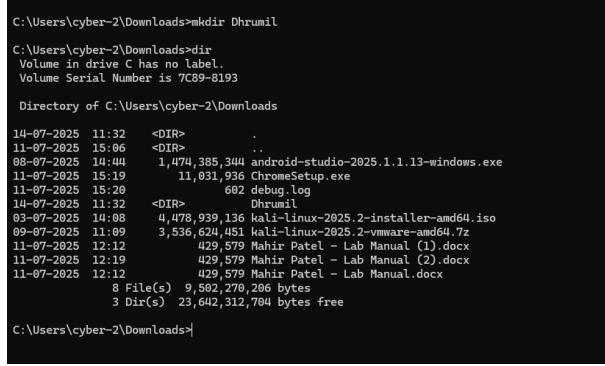
C:\Users\cyber-2>
```

Figure 2: Output of dir command

3. Command: mkdir

Description: Creates a new directory.

Screenshot



```
C:\Users\cyber-2\Downloads>mkdir Dhrumil
C:\Users\cyber-2\Downloads>dir
 Volume in drive C has no label.
 Volume Serial Number is 7C89-8193

 Directory of C:\Users\cyber-2\Downloads

14-07-2025 11:32 <DIR> .
11-07-2025 15:06 <DIR> ..
08-07-2025 14:44 1,474,385,344 android-studio-2025.1.1.13-windows.exe
11-07-2025 15:19 11,031,936 ChromeSetup.exe
11-07-2025 15:20 602 debug.log
14-07-2025 11:32 <DIR> Dhrumil
03-07-2025 14:08 4,478,939,136 kali-linux-2025.2-installer-amd64.iso
09-07-2025 11:09 3,536,624,451 kali-linux-2025.2-vmware-amd64.7z
11-07-2025 12:12 429,579 Mahir Patel - Lab Manual (1).docx
11-07-2025 12:19 429,579 Mahir Patel - Lab Manual (2).docx
11-07-2025 12:12 429,579 Mahir Patel - Lab Manual.docx
               8 File(s)  9,502,270,206 bytes
               3 Dir(s) 23,642,312,704 bytes free

C:\Users\cyber-2\Downloads>
```

Figure 3: Output of mkdir command

4. Command: rmdir

Description: Deletes a directory (folder).

Screenshot

```
PS C:\Users\cyber-2\Downloads> rmdir .\Demo<br/>PS C:\Users\cyber-2\Downloads> dir<br/><br/>Directory: C:\Users\cyber-2\Downloads<br/><br/>Mode LastWriteTime Length Name<br/>---- <---- <---- <----<br/>d---- 14-07-2025 11:43 Dhrumil<br/>-a---- 08-07-2025 14:44 1474385344 android-studio-2025.1.1.13-windows.exe<br/>-a---- 11-07-2025 15:19 11031936 ChromeSetup.exe<br/>-a---- 11-07-2025 15:28 602 debug.log<br/>-a---- 03-07-2025 14:08 4478952481 kali-linux-x-2025.2-vmmware-amd64.iso<br/>-a---- 08-07-2025 13:09 3533204811 kali-linux-x-2025.2-vmmware-amd64.7z<br/>-a---- 11-07-2025 12:12 429579 Mahir Patel - Lab Manual (1).docx<br/>-a---- 11-07-2025 12:19 429579 Mahir Patel - Lab Manual (2).docx<br/>-a---- 11-07-2025 12:12 429579 Mahir Patel - Lab Manual.docx<br/><br/>PS C:\Users\cyber-2\Downloads> |
```

Figure 4: Output of rmdir command

5. Command: copy

Description: Copies files from one location to another.

Screenshot

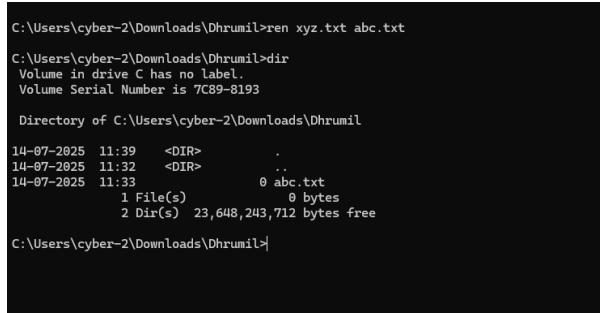
```
PS C:\Users\cyber-2\Downloads\Dhrumil> copy .\xyz.txt abc.txt<br/>PS C:\Users\cyber-2\Downloads\Dhrumil> dir<br/><br/>Directory: C:\Users\cyber-2\Downloads\Dhrumil<br/><br/>Mode LastWriteTime Length Name<br/>---- <---- <---- <----<br/>-a---- 14-07-2025 11:42 0 abc.txt<br/>-a---- 14-07-2025 11:42 0 xyz.txt<br/><br/>PS C:\Users\cyber-2\Downloads\Dhrumil> |
```

Figure 5: Output of copy command

6. Command: rename

Description: Renames a file or directory.

Screenshot



```
C:\Users\cyber-2\Downloads\Dhrumil>ren xyz.txt abc.txt
C:\Users\cyber-2\Downloads\Dhrumil>dir
Volume in drive C has no label.
Volume Serial Number is 7C89-8193

Directory of C:\Users\cyber-2\Downloads\Dhrumil

14-07-2025 11:39    <DIR>          .
14-07-2025 11:32    <DIR>          ..
14-07-2025 11:33          0 abc.txt
                           0 bytes
                           2 Dir(s) 23,648,243,712 bytes free

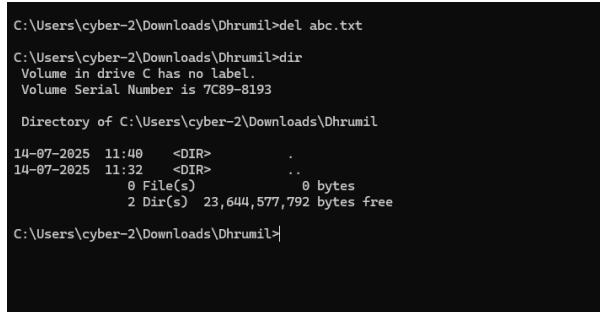
C:\Users\cyber-2\Downloads\Dhrumil>
```

Figure 6: Output of rename command

7. Command: del

Description: Deletes one or more files.

Screenshot



```
C:\Users\cyber-2\Downloads\Dhrumil>del abc.txt
C:\Users\cyber-2\Downloads\Dhrumil>dir
Volume in drive C has no label.
Volume Serial Number is 7C89-8193

Directory of C:\Users\cyber-2\Downloads\Dhrumil

14-07-2025 11:40    <DIR>          .
14-07-2025 11:32    <DIR>          ..
                           0 File(s)   0 bytes
                           2 Dir(s) 23,644,577,792 bytes free

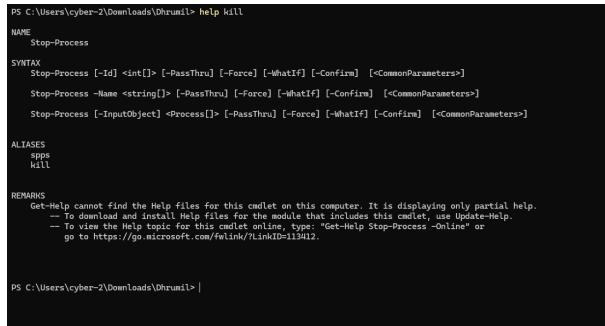
C:\Users\cyber-2\Downloads\Dhrumil>
```

Figure 7: Output of del command

8. Command: help

Description: Displays help information about available commands.

Screenshot



```
PS C:\Users\cyber-2\Downloads\Dhrumil> help kill
NAME
  Stop-Process

SYNTAX
  Stop-Process [-Id] <int[]> [-PassThru] [-Force] [-WhatIf] [<CommonParameters>]
  Stop-Process -Name <string[]> [-PassThru] [-Force] [-WhatIf] [-Confirm] [<CommonParameters>]
  Stop-Process -InputObject <Process[]> [-PassThru] [-Force] [-WhatIf] [-Confirm] [<CommonParameters>]

ALIASES
  spps
  kill

REMARKS
  Get-Help cannot find the Help files for this cmdlet on this computer. It is displaying only partial help.
  -- To download and install Help files for the module that includes this cmdlet, use Update-Help.
  -- To view the Help topic for this cmdlet online, type "Get-Help Stop-Process -Online" or
  go to https://go.microsoft.com/fwlink/?LinkID=1139412

PS C:\Users\cyber-2\Downloads\Dhrumil> |
```

Figure 8: Output of help command

9. Command: calc

Description: Opens the Windows calculator application.

Screenshot

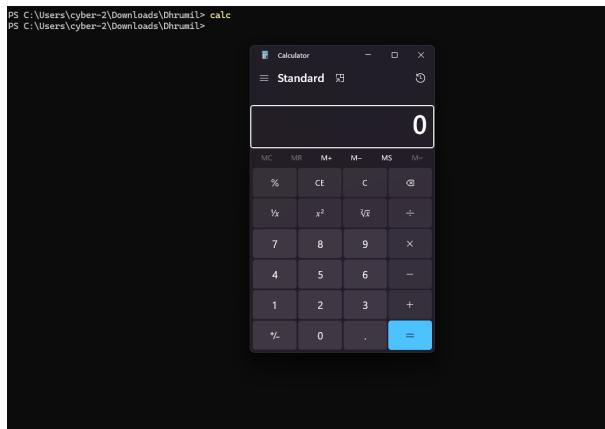
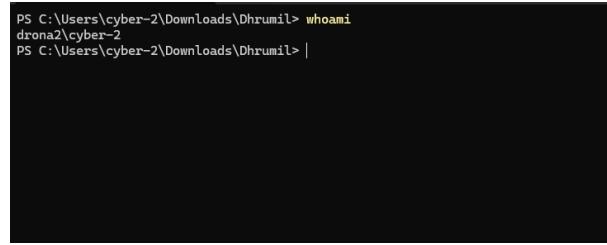


Figure 9: Output of calc command

10. Command: whoami

Description: Displays the current user and domain.

Screenshot



```
PS C:\Users\cyber-2\Downloads\Dhrumil> whoami
drone2\cyber-2
PS C:\Users\cyber-2\Downloads\Dhrumil> |
```

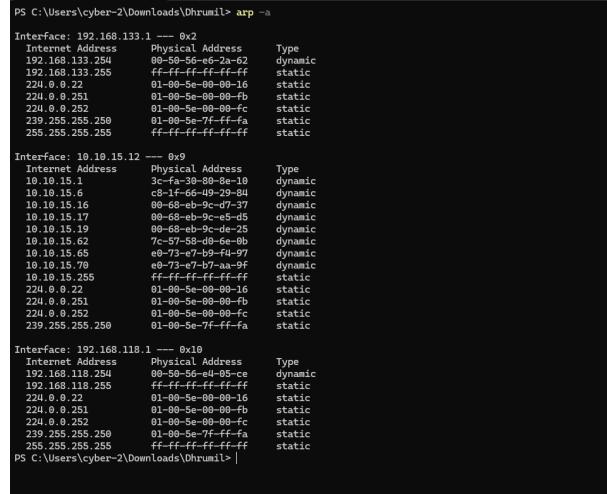
Figure 10: Output of whoami command

Advanced PowerShell Commands

11. Command: arp

Description: Displays the ARP cache, which maps IP addresses to MAC addresses.

Screenshot



```
PS C:\Users\cyber-2\Downloads\Dhrumil> arp -a
Interface: 192.168.133.1 --- 0x0
Internet Address      Physical Address      Type
192.168.133.254        00-56-56-e8-7a-62    dynamic
192.168.133.255        ff-ff-ff-ff-ff-ff    static
224.0.0.1               01-00-5e-00-00-01    static
224.0.0.251             01-00-5e-00-00-fb    static
224.0.0.252             01-00-5e-00-00-fc    static
239.255.255.250         01-00-5e-7f-ff-fa    static
239.255.255.255         ff-ff-ff-ff-ff-ff    static

Interface: 10.10.15.12 --- 0x0
Internet Address      Physical Address      Type
10.10.15.1              3c-fa-39-80-8e-18    dynamic
10.10.15.6              c8-1f-66-09-29-84    dynamic
10.10.15.16             00-68-eb-9c-d7-37    dynamic
10.10.15.17             00-68-eb-9c-a5-d5    dynamic
10.10.15.19             00-68-eb-9c-de-25    dynamic
10.10.15.62             7c-57-59-d0-8e-b8    dynamic
10.10.15.75             e0-73-c7-b7-aa-9f    dynamic
10.10.15.79             e0-73-c7-b7-aa-9f    dynamic
10.10.15.255            ff-ff-ff-ff-ff-ff    static
224.0.0.22               01-00-5e-00-00-16    static
224.0.0.251             01-00-5e-00-00-fb    static
224.0.0.252             01-00-5e-00-00-fc    static
239.255.255.250          01-00-5e-7f-ff-fa    static

Interface: 192.168.118.1 --- 0x10
Internet Address      Physical Address      Type
192.168.118.254         00-56-56-e0-05-ce    dynamic
192.168.118.255         ff-ff-ff-ff-ff-ff    static
224.0.0.22               01-00-5e-00-00-16    static
224.0.0.251             01-00-5e-00-00-fb    static
224.0.0.252             01-00-5e-00-00-fc    static
239.255.255.250          01-00-5e-7f-ff-fa    static
239.255.255.255          ff-ff-ff-ff-ff-ff    static

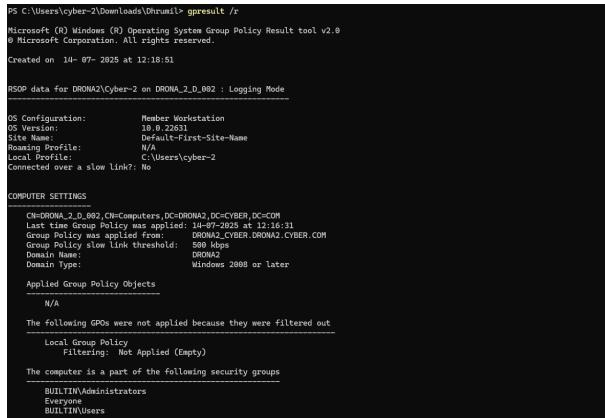
PS C:\Users\cyber-2\Downloads\Dhrumil> |
```

Figure 11: Output of arp command

12. Command: gprest

Description: Displays the Resultant Set of Policy (RSoP) information.

Screenshot



```
PS C:\Users\cyber-2\Downloads\Dhrumil> gpresult /r
Microsoft (R) Windows (R) Operating System Group Policy Result tool v2.0
Copyright (C) Microsoft Corporation. All rights reserved.

Created on 14-07-2025 at 12:18:51

RSOP data for DRONAZ\cyber-2 on DRONAZ_2_0_002 : Logging Mode

OS Configuration: Member Workstation
OS Version: 10.0.22631.22631
Site Name: Default-First-Site-Name
Roaming Profile: N/A
Local Profile: C:\Users\cyber-2
Connected over a slow link?: No

COMPUTER SETTINGS
Computer: DRONAZ_2_0_002 CN=Computers, DC=DRONAZ, DC=CYBER, DC=COM
Last Group Policy was applied: 14-07-2025 at 12:18:31
Group Policy was applied from: DRONAZ_CYBER.DRONAZ.CYBER.COM
Group Policy slow link threshold: 500 kbps
Domain Name: DRONAZ
Domain Type: Windows 2008 or later

Applied Group Policy Objects
N/A

The following GPOs were not applied because they were filtered out
Local Group Policy
Filtering: Not Applied (Empty)

The computer is a part of the following security groups
BUILTIN\Administrators
Everyone
BUILTIN\Users
```

Figure 12: Output of gpresult command

13. Command: gpupdate

Description: Applies new Group Policy settings.

Screenshot



```
PS C:\Users\cyber-2\Downloads\Dhrumil> gpupdate
Updating policy...

Computer Policy update has completed successfully.
User Policy update has completed successfully.

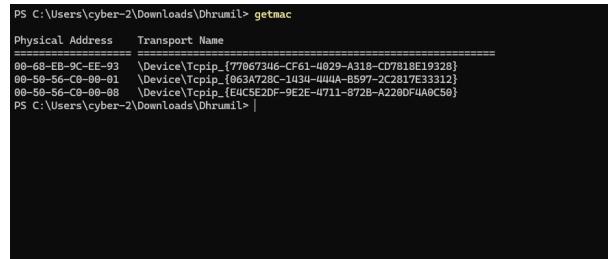
PS C:\Users\cyber-2\Downloads\Dhrumil> |
```

Figure 13: Output of gpupdate command

14. Command: getmac

Description: Displays the MAC address of the system's network interfaces.

Screenshot



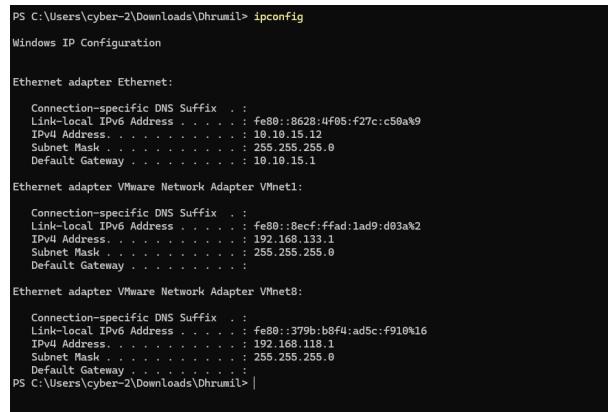
```
PS C:\Users\cyber-2\Downloads\Dhrumil> getmac
Physical Address      Transport Name
=====
00-68-EB-9C-EE-93    \Device\Tcpip_{77067346-CF61-4029-A318-CD7818E19328}
00-50-56-C0-00-01    \Device\Tcpip_{B63A728C-1434-44AA-B597-2C2817E33312}
00-50-56-C0-00-08    \Device\Tcpip_{E1C5E2DF-9E2E-4711-872B-A220DF4A0c50}
PS C:\Users\cyber-2\Downloads\Dhrumil> |
```

Figure 14: Output of getmac command

15. Command: ipconfig

Description: Displays all current TCP/IP network configuration values.

Screenshot



```
PS C:\Users\cyber-2\Downloads\Dhrumil> ipconfig
Windows IP Configuration

Ethernet adapter Ethernet:
  Connection-specific DNS Suffix  . :
  Link-local IPv6 Address . . . . . : fe80::8628:4f05:f27c:c50a%2
  IPv4 Address . . . . . : 10.10.15.12
  Subnet Mask . . . . . : 255.255.255.0
  Default Gateway . . . . . : 10.10.15.1

Ethernet adapter VMware Network Adapter VMnet1:
  Connection-specific DNS Suffix  . :
  Link-local IPv6 Address . . . . . : fe80::8ecf:ffad:1ad9:d03a%2
  IPv4 Address . . . . . : 192.168.133.1
  Subnet Mask . . . . . : 255.255.255.0
  Default Gateway . . . . . :

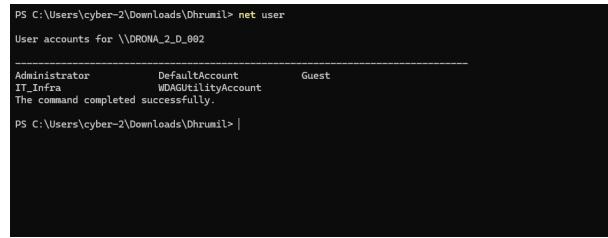
Ethernet adapter VMware Network Adapter VMnet8:
  Connection-specific DNS Suffix  . :
  Link-local IPv6 Address . . . . . : fe80::379b:b8f4:ad5c:f910%16
  IPv4 Address . . . . . : 192.168.118.1
  Subnet Mask . . . . . : 255.255.255.0
  Default Gateway . . . . . :
PS C:\Users\cyber-2\Downloads\Dhrumil> |
```

Figure 15: Output of ipconfig command

16. Command: net

Description: Used to manage network resources like shares and users.

Screenshot



```
PS C:\Users\cyber-2\Downloads\Dhrumil> net user
User accounts for \\DRONA_2_D_002

Administrator          DefaultAccount      Guest
IT_Infra               WDAGUtilityAccount

The command completed successfully.

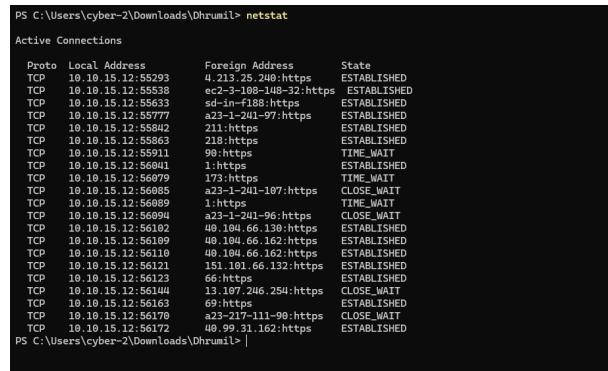
PS C:\Users\cyber-2\Downloads\Dhrumil> |
```

Figure 16: Output of net command

17. Command: netstat

Description: Displays active network connections and listening ports.

Screenshot



```
PS C:\Users\cyber-2\Downloads\Dhrumil> netstat
Active Connections

Proto  Local Address          Foreign Address        State
TCP   10.10.15.12:55293    44.11.28.208:https  ESTABLISHED
TCP   10.10.15.12:55328    ec2-3-108-108-32:https ESTABLISHED
TCP   10.10.15.12:55632    sd-in-f188:https  ESTABLISHED
TCP   10.10.15.12:55777    a23-1-241-97:https ESTABLISHED
TCP   10.10.15.12:55842    211:https       ESTABLISHED
TCP   10.10.15.12:55863    218:https       ESTABLISHED
TCP   10.10.15.12:55911    90:https        TIME_WAIT
TCP   10.10.15.12:56041    1:https         ESTABLISHED
TCP   10.10.15.12:56079    173:https       TIME_WAIT
TCP   10.10.15.12:56089    a23-1-241-107:https CLOSE_WAIT
TCP   10.10.15.12:56098    1:https         TIME_WAIT
TCP   10.10.15.12:56099    a23-1-241-96:https CLOSE_WAIT
TCP   10.10.15.12:56102    40.104.66.130:https ESTABLISHED
TCP   10.10.15.12:56109    40.104.66.162:https ESTABLISHED
TCP   10.10.15.12:56116    40.104.66.162:https ESTABLISHED
TCP   10.10.15.12:56121    151.101.66.132:https ESTABLISHED
TCP   10.10.15.12:56123    66:https        ESTABLISHED
TCP   10.10.15.12:56144    13.107.246.254:https CLOSE_WAIT
TCP   10.10.15.12:56163    69:https        ESTABLISHED
TCP   10.10.15.12:56176    a23-217-111-90:https CLOSE_WAIT
TCP   10.10.15.12:56177    40.99.31.162:https ESTABLISHED

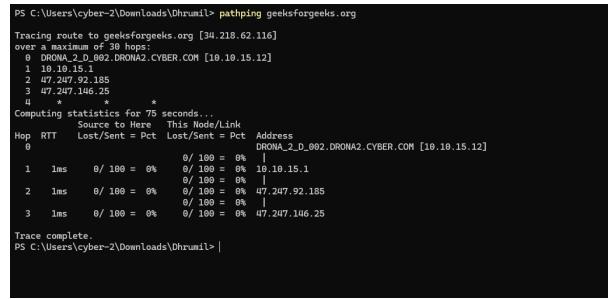
PS C:\Users\cyber-2\Downloads\Dhrumil> |
```

Figure 17: Output of netstat command

18. Command: pathping

Description: Combines ping and tracert to find network issues.

Screenshot



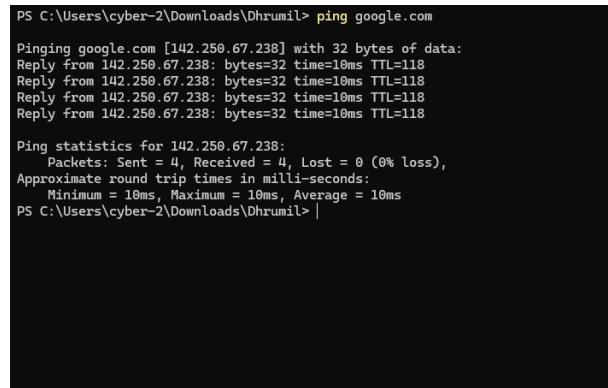
```
PS C:\Users\cyber-2\Downloads\Dhrumil> pathping geeksforgeeks.org
Tracing route to geeksforgeeks.org [34.218.62.116]
over a maximum of 38 hops:
  0  10.10.15.12  DRONA2.CYBER.COM [10.10.15.12]
  1  10.10.15.1
  2  47.247.92.185
  3  47.247.146.25
  4  *          *
Computing statistics for 75 seconds...
Source to Here This Node/Link
Hop RTT Lost/Sent = Pct Lost/Sent = Pct Address
  0          0/ 100 = 0%          0/ 100 = 0% DRONA_2_D_002.DRONA2.CYBER.COM [10.10.15.12]
  1  1ms    0/ 100 = 0%          0/ 100 = 0% 10.10.15.1
  2  1ms    0/ 100 = 0%          0/ 100 = 0% 47.247.92.185
  3  1ms    0/ 100 = 0%          0/ 100 = 0% 47.247.146.25
Trace complete.
PS C:\Users\cyber-2\Downloads\Dhrumil> |
```

Figure 18: Output of pathping command

19. Command: ping

Description: Sends ICMP echo requests to test network connectivity.

Screenshot



```
PS C:\Users\cyber-2\Downloads\Dhrumil> ping google.com
Pinging google.com [142.250.67.238] with 32 bytes of data:
Reply from 142.250.67.238: bytes=32 time=10ms TTL=118

Ping statistics for 142.250.67.238:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 10ms, Maximum = 10ms, Average = 10ms
PS C:\Users\cyber-2\Downloads\Dhrumil> |
```

Figure 19: Output of ping command

20. Command: route print

Description: Displays the routing table on the system.

Screenshot

```
PS C:\Users\cyber-2\Downloads\Dhrumil> route print
=====
Interface List
  9...00 68 eb 9c ee 93 .... Realtek PCIe GbE Family Controller
  2...00 50 56 c0 00 01 .... VMware Virtual Ethernet Adapter for VMnet1
  16...00 50 56 c0 00 00 .... VMware Virtual Ethernet Adapter for VMnet8
  1.....Software Loopback Interface 1
=====

IPv4 Route Table
=====
Active Routes:
Network Destination      Netmask     Gateway       Interface Metric
  0.0.0.0          0.0.0.0   10.10.15.1    10.10.15.12    281
  10.0.0.0        255.255.0.0  0.0.0.0       On-link    281
  10.10.15.12    255.255.255.255 0.0.0.0       On-link    10.10.15.12    281
  10.10.15.255   255.255.255.255 0.0.0.0       On-link    10.10.15.12    281
  127.0.0.0       255.0.0.0    0.0.0.0       On-link   127.0.0.1    331
  127.0.0.1       255.255.255.255 0.0.0.0       On-link   127.0.0.1    331
  192.168.118.0   255.255.255.0 0.0.0.0       On-link  192.168.118.1    291
  192.168.119.0   255.255.255.0 0.0.0.0       On-link  192.168.119.1    291
  192.168.120.0   255.255.255.0 0.0.0.0       On-link  192.168.120.1    291
  192.168.133.0   255.255.255.0 0.0.0.0       On-link  192.168.133.1    291
  192.168.133.1   255.255.255.0 0.0.0.0       On-link  192.168.133.1    291
  192.168.133.2   255.255.255.0 0.0.0.0       On-link  192.168.133.2    291
  224.0.0.0       255.255.255.255 0.0.0.0       On-link   224.0.0.1    331
  224.0.0.0       240.0.0.0    0.0.0.0       On-link   10.10.15.12    281
  224.0.0.0       248.0.0.0    0.0.0.0       On-link  192.168.118.1    291
  224.0.0.0       252.0.0.0    0.0.0.0       On-link  192.168.119.1    291
  255.255.255.255 255.255.255.255 0.0.0.0       On-link   224.0.0.1    331
  255.255.255.255 255.255.255.255 0.0.0.0       On-link   10.10.15.12    281
  255.255.255.255 255.255.255.255 0.0.0.0       On-link  192.168.118.1    291
  255.255.255.255 255.255.255.255 0.0.0.0       On-link  192.168.133.1    291
  255.255.255.255 255.255.255.255 0.0.0.0       On-link  192.168.133.2    291
=====
Persistent Routes:
Network Address      Netmask     Gateway Address Metric
  0.0.0.0          0.0.0.0     10.10.15.1 Default
=====

IPv6 Route Table
=====
```

Figure 20: Output of route print command

21. Command: systeminfo

Description: Provides detailed configuration info about the system.

Screenshot

```
PS C:\Users\cyber-2\Downloads\Dhrumil> systeminfo
=====
Host Name: DRONA_2_D_982
OS Name: Microsoft Windows 11 Pro
OS Version: 10.0.22631 N/A Build 22631
OS Manufacturer: Microsoft Corporation
OS Configuration: Member Workstation
OS Build Type: Multi-User Free
Registered Owner: Windows User
Registered Organization:
Processor: Intel(R) Core(TM) i5-1135G7 CPU @ 2.40GHz
Processor(s): 1 Processor(s) Installed.
[01]: AMD64 Family 23 Model 96 Stepping 1 AuthenticAMD ~3600 MHz
BIOS Version: AMI F.20, 27-10-2021
Windows Directory: C:\Windows
System Directory: C:\Windows\system32
Boot Device: \Device\HarddiskVolume1
System Locale: en-us|English (United States)
Input Locale: 0009|0009
Time Zone: (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi
Total Physical Memory: 15.780 GB
Available Physical Memory: 9.475 MB
Virtual Memory: Max Size: 18.180 MB
Virtual Memory: Available: 10.888 MB
Virtual Memory: In Use: 7.492 MB
Page File Location(s): D:\pagefile.sys
Domain: DRONA2.CYBER.COM
Logon Server: \\DRONA2_CYBER
Hotfix(s): 5 Hotfix(s) Installed.
[01]: KB5012170
[02]: KB5012170
[03]: KB5027397
[04]: KB5062552
[05]: KB5063707
Network Card(s): 3 NIC(s) Installed.
[01]: Realtek PCIe GbE Family Controller
Connection Name: Ethernet
=====
```

Figure 21: Output of systeminfo command

22. Command: tasklist

Description: Displays a list of currently running processes.

Screenshot

Image Name	PID	Session Name	Session#	Mem Usage
System Idle Process	0	Services	0	7,768 K
System	4	Services	0	47,844 K
Secure System Registry	172	Services	0	28,976 K
sms.exe	784	Services	0	1,292 K
csrss.exe	960	Services	0	5,102 K
minidump.exe	1732	Services	0	7,512 K
services.exe	1148	Services	0	10,804 K
lsalso.exe	1284	Services	0	4,336 K
lsass.exe	1212	Services	0	30,972 K
svchost.exe	1312	Services	0	31,076 K
fontdrv.dll.exe	1396	Services	0	4,004 K
svchost.exe	1480	Services	0	16,392 K
svchost.exe	1532	Services	0	11,392 K
svchost.exe	1644	Services	0	5,508 K
svchost.exe	1648	Services	0	43,896 K
svchost.exe	1732	Services	0	7,512 K
svchost.exe	1788	Services	0	9,184 K
svchost.exe	1788	Services	0	10,576 K
svchost.exe	1796	Services	0	9,764 K
svchost.exe	1812	Services	0	7,708 K
svchost.exe	1832	Services	0	9,764 K
svchost.exe	1988	Services	0	10,204 K
svchost.exe	1988	Services	0	6,008 K
svchost.exe	1744	Services	0	19,696 K
svchost.exe	2152	Services	0	24,328 K
svchost.exe	2296	Services	0	17,976 K
svchost.exe	2657	Services	0	11,624 K
svchost.exe	2672	Services	0	8,036 K
svchost.exe	2684	Services	0	21,716 K
amdfendsr.exe	2692	Services	0	7,904 K
atiesrx.exe	2704	Services	0	7,908 K
svchost.exe	2708	Services	0	12,504 K
svchost.exe	2888	Services	0	11,376 K
svchost.exe	3000	Services	0	6,768 K

Figure 22: Output of tasklist command

23. Command: tracert

Description: Traces the route packets take to a destination.

Screenshot

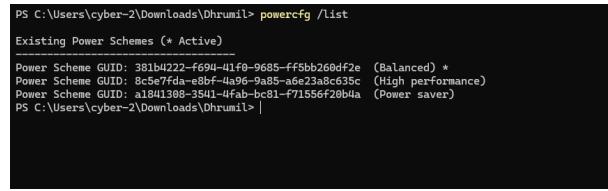
PS C:\Users\cyber-2\Downloads\Dhrumil> tracert geeksforgeeks.org					
over a maximum of 30 hops:					
1	<1 ms	<1 ms	<1 ms	10.10.15.1	
2	1 ms	1 ms	1 ms	47.247.92.185	
3	1 ms	1 ms	1 ms	47.247.146.25	
4	*	*	*	Request timed out.	
5	34 ms	34 ms	34 ms	172.16.5.85	
6	33 ms	33 ms	95 ms	172.16.5.85	
7	35 ms	34 ms	35 ms	103.198.149.170	
8	251 ms	251 ms	251 ms	49.45.4.85	
9	251 ms	251 ms	251 ms	49.45.4.85	
10	*	*	*	Request timed out.	
11	*	*	*	Request timed out.	
12	*	*	*		

Figure 23: Output of tracert command

24. Command: powercfg

Description: Manages the power settings and configurations on a system.

Screenshot



```
PS C:\Users\cyber-2\Downloads\Dhrumil> powercfg /list
Existing Power Schemes (* Active)
Power Scheme GUID: 381b4f222-f694-41f0-9685-ff5b260df2e (Balanced) *
Power Scheme GUID: 8c5e7fd8-e8bf-4a96-9a85-a6e23a8c635c (High performance)
Power Scheme GUID: a1841308-3541-4fab-bc81-f71556f20b4a (Power saver)
PS C:\Users\cyber-2\Downloads\Dhrumil> |
```

Figure 24: Output of powercfg command

25. Command: regedit

Description: Opens the Windows Registry Editor.

Screenshot

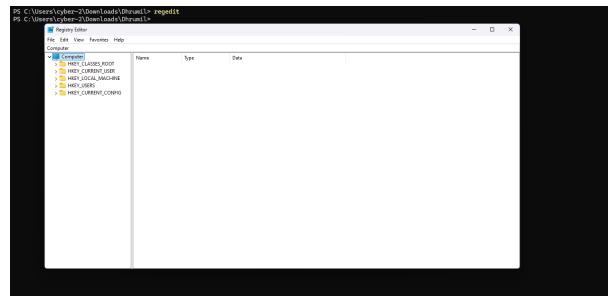


Figure 25: Output of regedit command

Conclusion

This practical helped us understand and use both basic and advanced PowerShell commands. Basic commands allowed file and folder management, while advanced commands provided tools for system and network monitoring. Overall, it improved our skills in handling administrative tasks using PowerShell.