# Windows commands

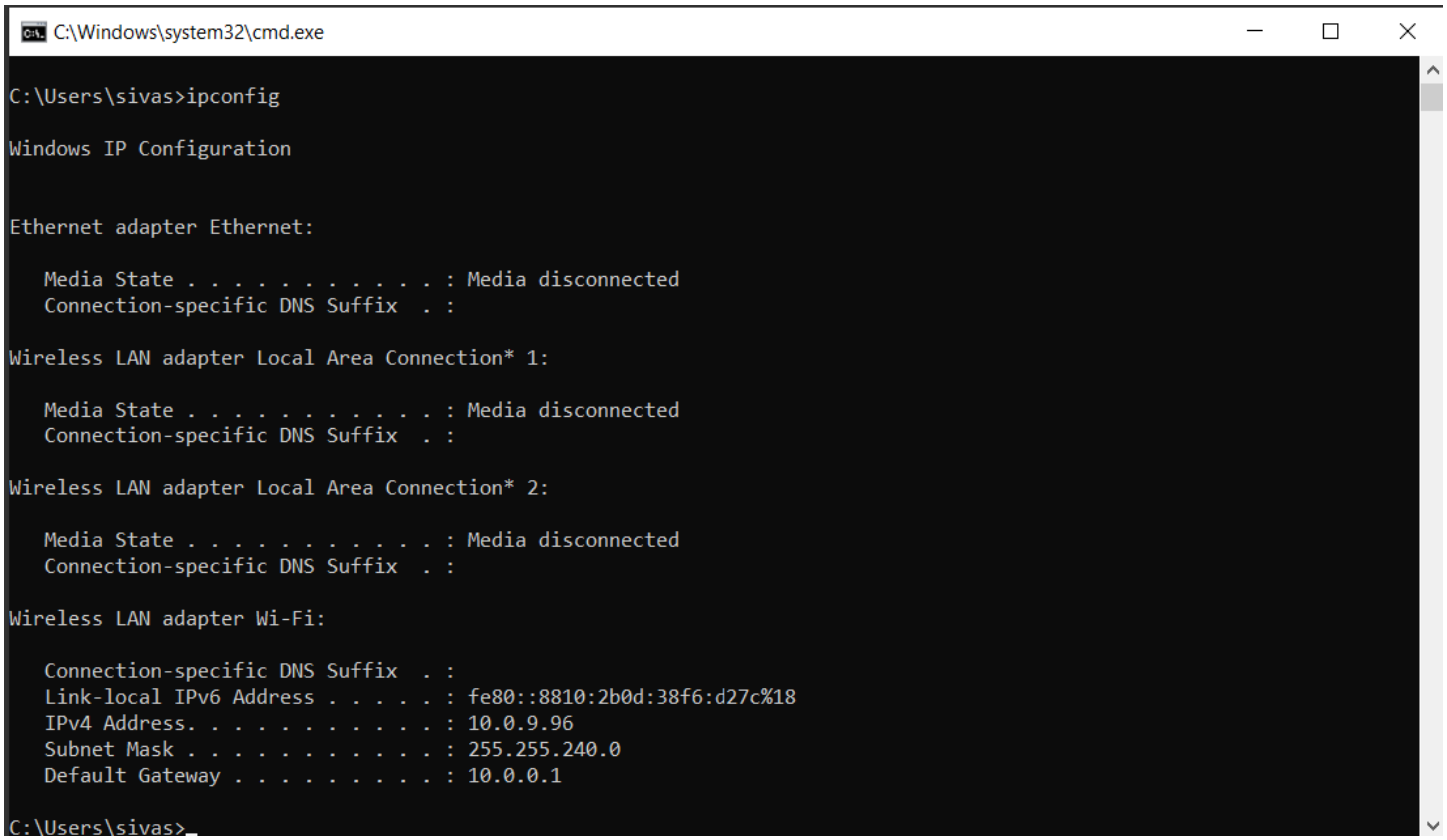
## 1. Ipconfig

**Syntax: ipconfig**

**Function:** cmd to show the NIC ip config and basic details.

**More details:** Refer Microsoft Learn

**Example:**




### 1.1 ipconfig /all

**Syntax: ipconfig /all**

**Function:** cmd to show the all NIC details.

### 1.2 ipconfig /flushdns

**Syntax: ipconfig /flushdns**

**Function:** cmd to clear the DNS cache.

## 2. Ping

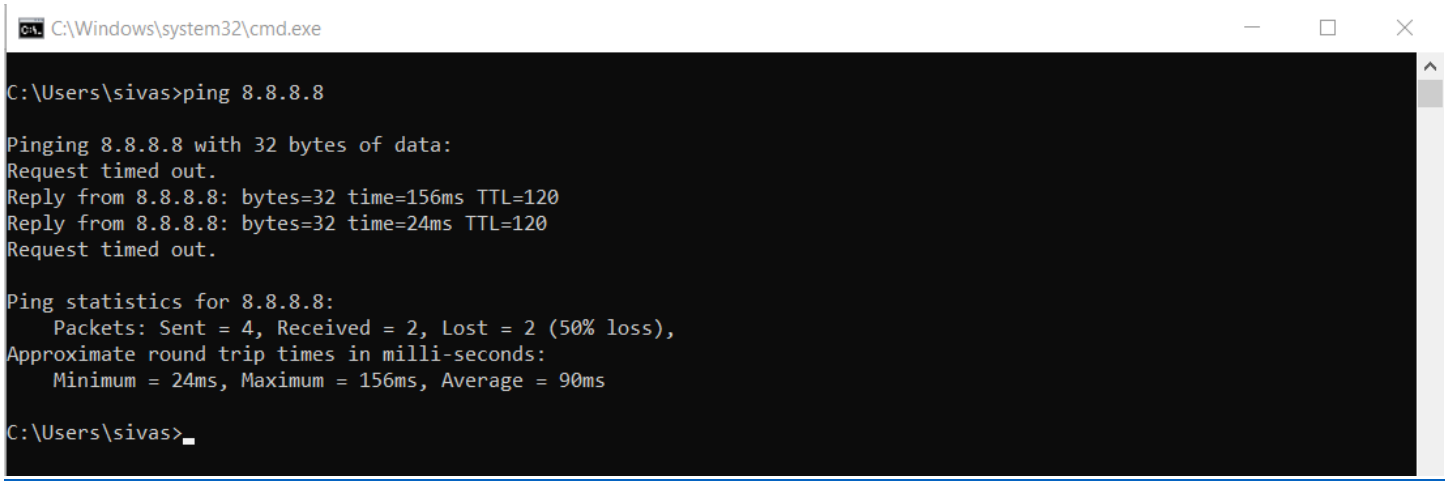
### Ping:

**Syntax: ping** <ip address>

**Function:** cmd to check weather the destination computer is reachable or not.

**More details:** Refer Microsoft Learn

**Example:**



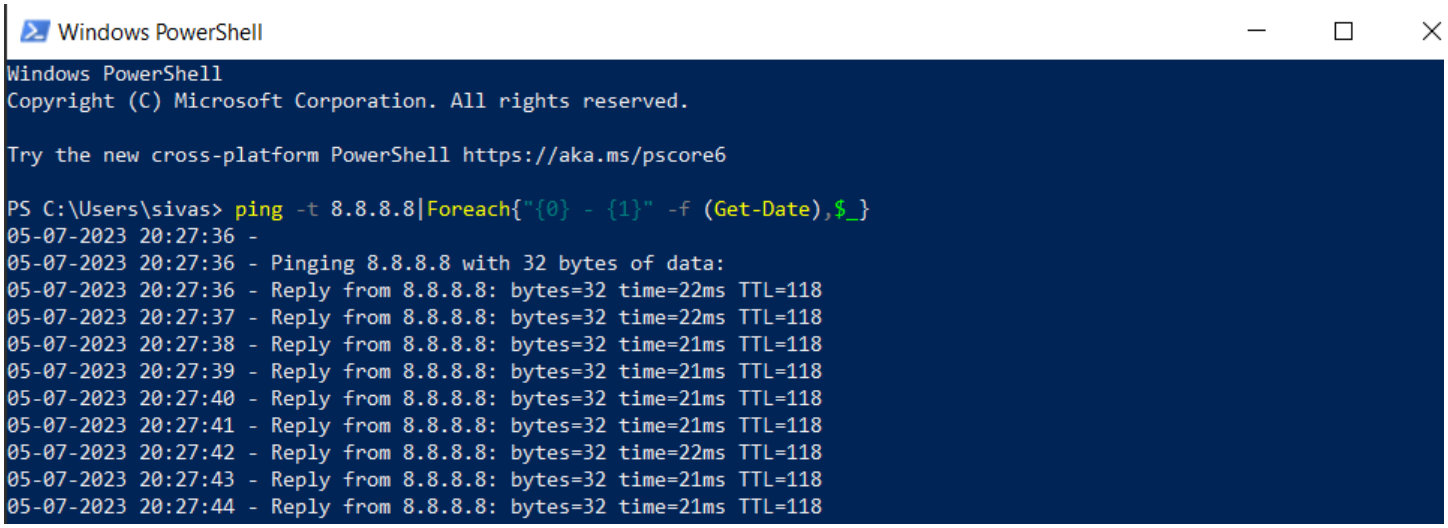

### Ping with timestamp:

**Syntax: ping -t** <ip address> **|Foreach{"{0} - {1}" -f (Get-Date),$_}**

**Function:** it will work in PowerShell. Normal ping cmd show the reply details of the destination computer but cmd will show the replay with timestamp.

**More details:** Refer Spiceworks

**Example:**



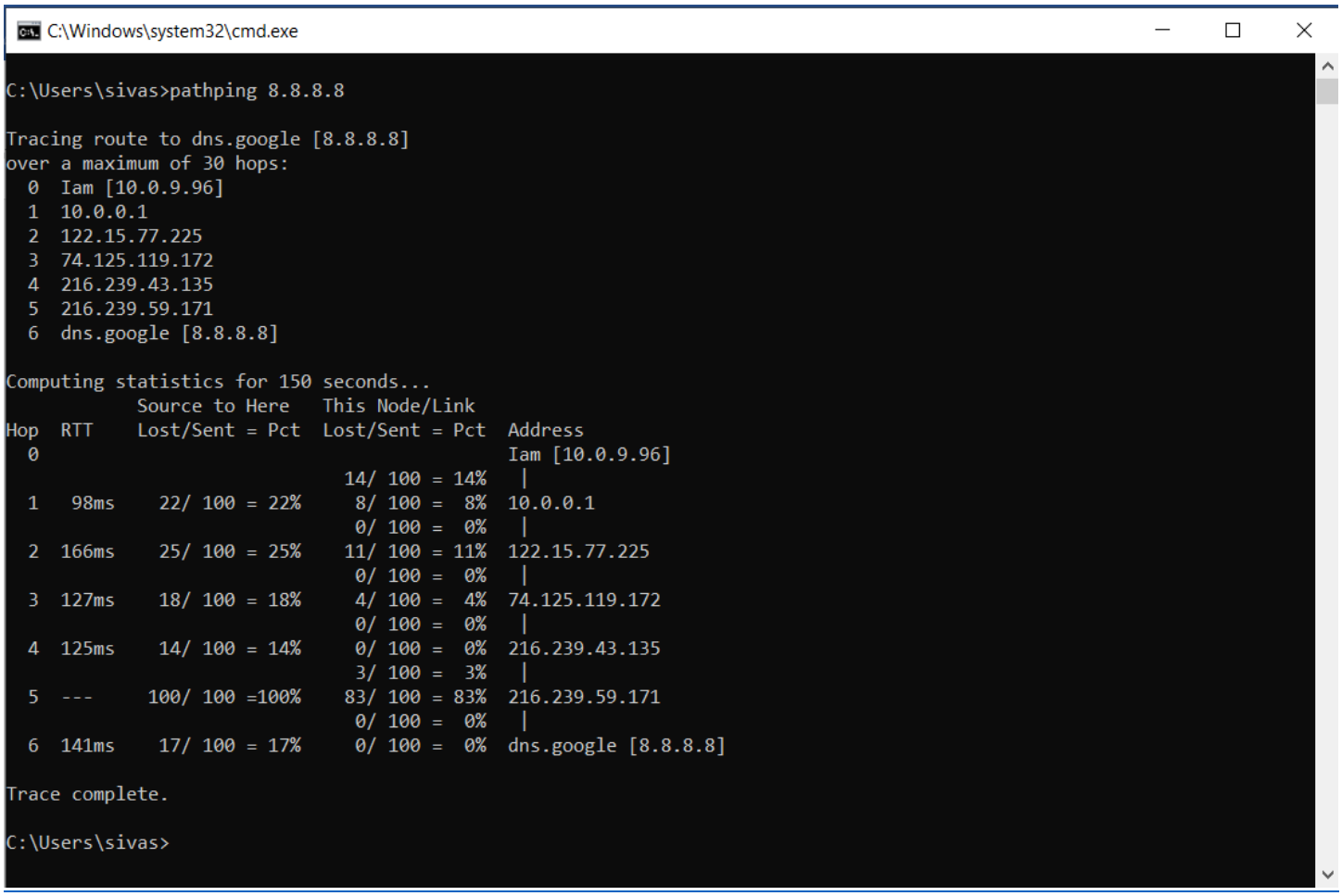
## 3. Path ping

**Syntax: pathping** <ip address>

**Function:** cmd to check the packet loss and no of hops between source and destination.

**More details:** Refer Microsoft Learn

**Example:**



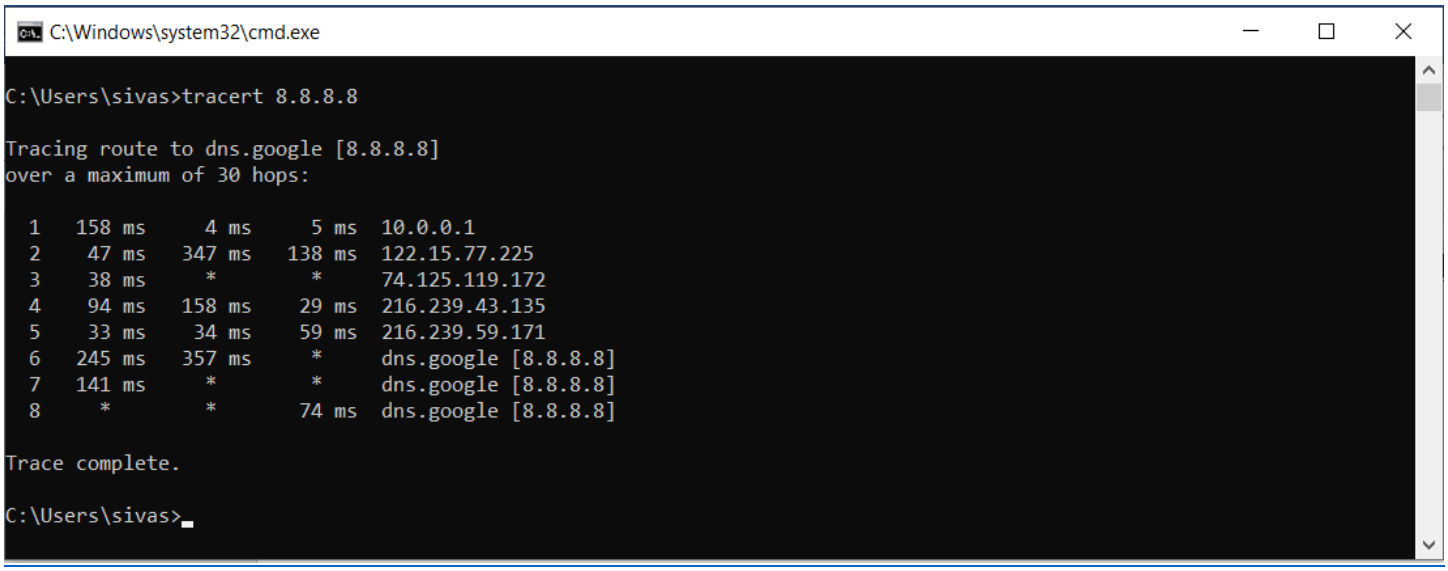

## 4. Tracert

**Syntax: tracert** <ip address>

**Function:** cmd to check the hops and no of router between source and destination.

**More details:** Refer Microsoft Learn

**Example:**



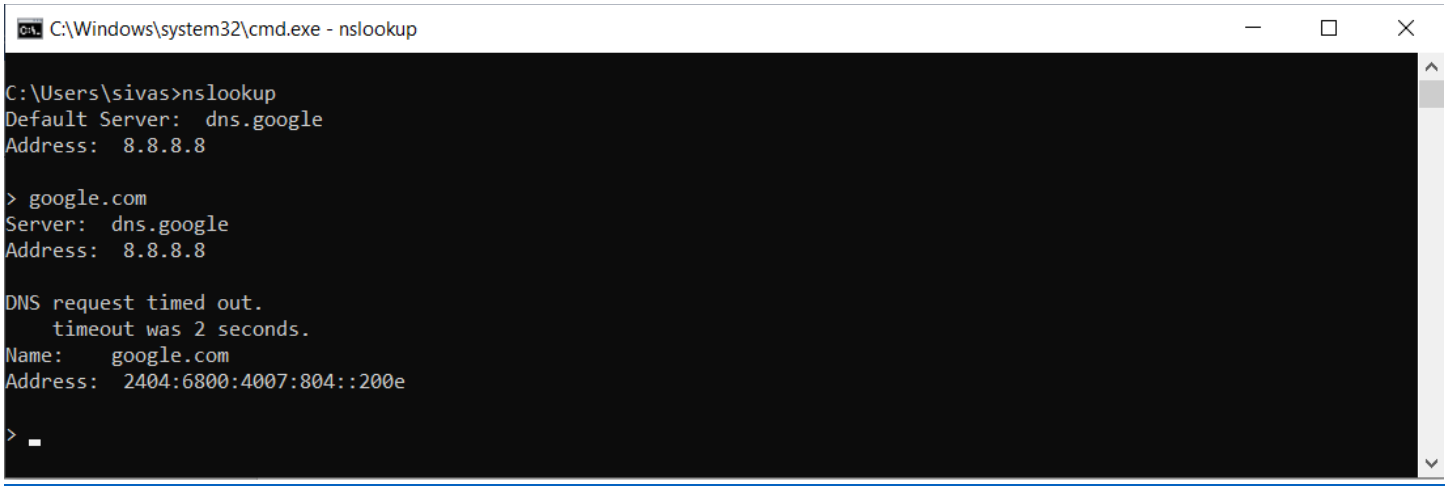

## 5. Nslookup

**Syntax: nslookup** <domain name>

**Function:** cmd to resolve the dns name to ip.

**More details:** Refer Microsoft Learn

**Example:**




## 6. Wifi Qrcode generator

**Syntax: new-qrcodewifiaccess -SSID "**<wifi name>**" -Password "**<wifi password>**" -outpath "**<file path location to save file>**"**

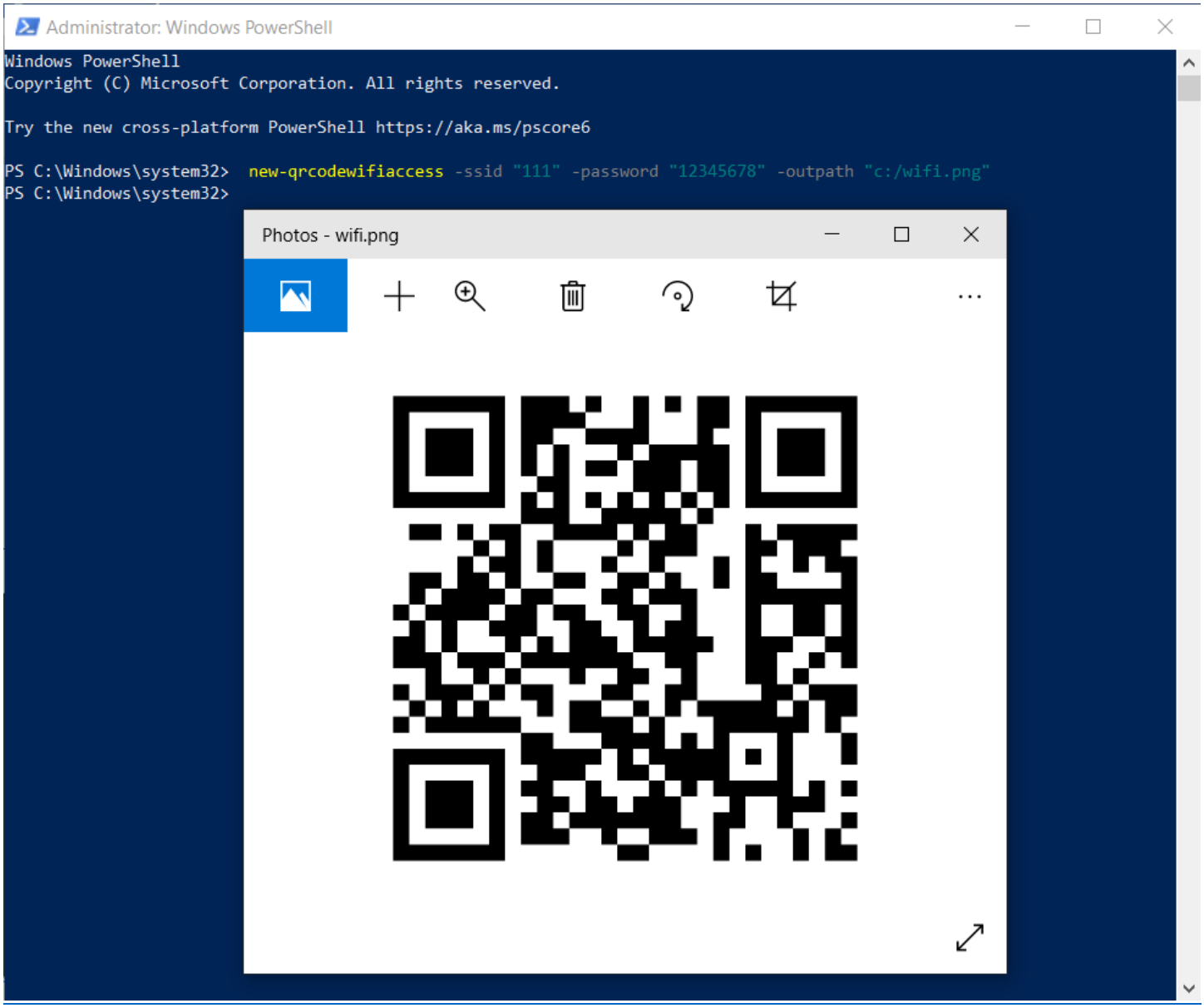
**Function:** cmd to genetrate wifi qrcode in powershell

**Installation cmds:** Install-Module -Name QRCodeGenerator

```
Import-Module QRCodeGenerator
```

**More details:** [Refer Generate QR Code with PowerShell in Windows 10]

**Example:**




## 7. Attrib Command

**Syntax: attrib "**<folder name>**" +s +h +r**

**Function:** folder is hidden and isn't visible when we select to show all files and folders.

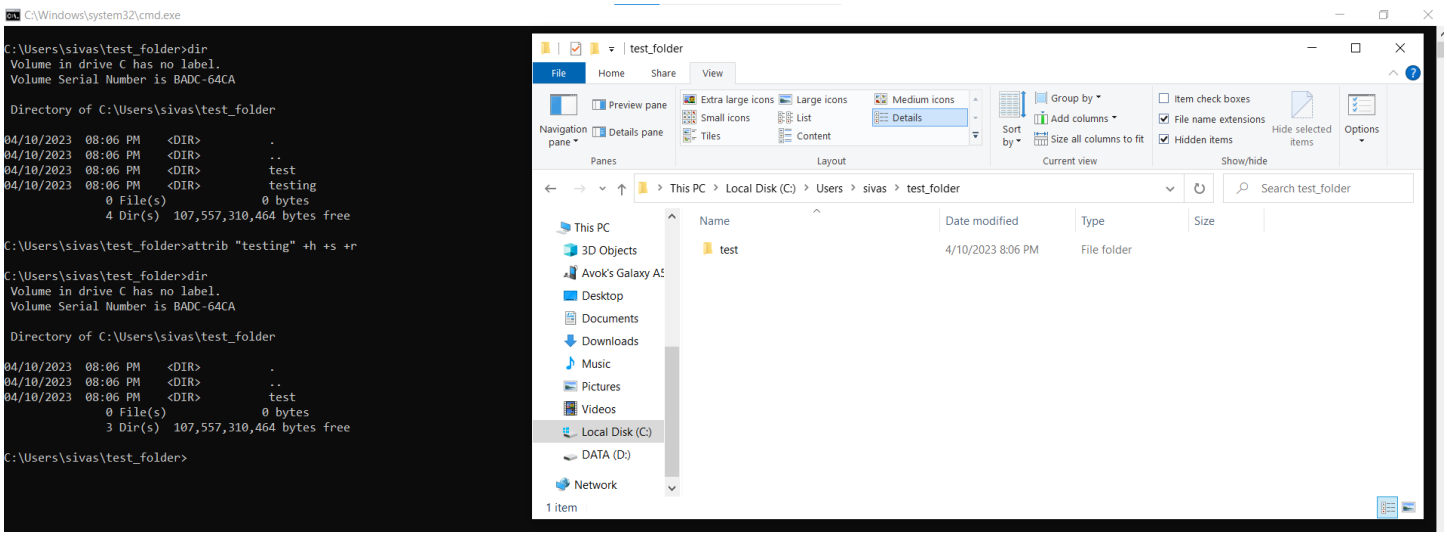
- **s** System
- **h** Hidden
- **r** Read-only

**Syntax: attrib "**<folder name>**" -s -h -r**

**Function:** folder is visible when we select to show all files and folders.

**More details:** Refer www.c-sharpcorner.com

**Example:**




## 8. Title

**Syntax: title** <string>

**Function:** To change the Command Prompt title.

**More details:** Refer Microsoft Learn

**Example:**


## 9. Prompt

**Syntax: prompt** <text>

**Function:** To change executing path name in command prompt.

**More details:** Refer Microsoft Learn

**Example:**


## 10. Netsh wifi password

**Syntax: netsh wlan show profile**

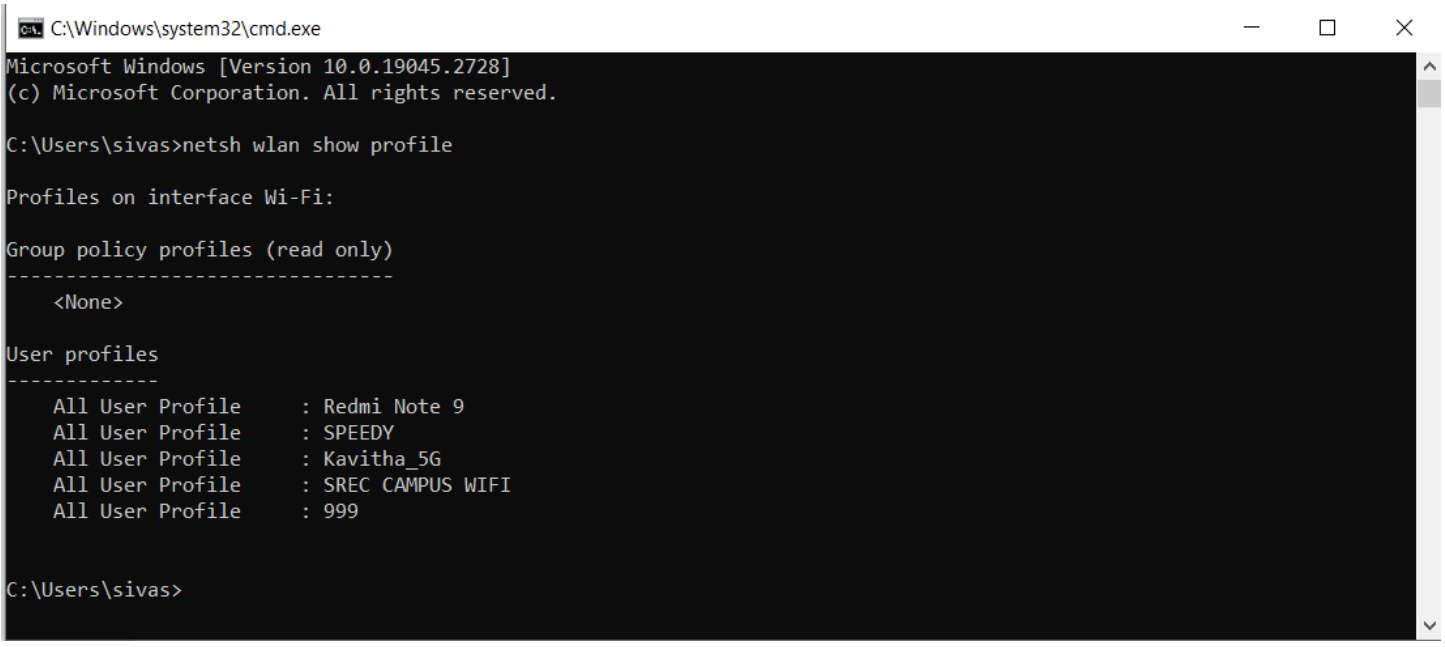
**Function:** To show a list of network names that we already connect to.

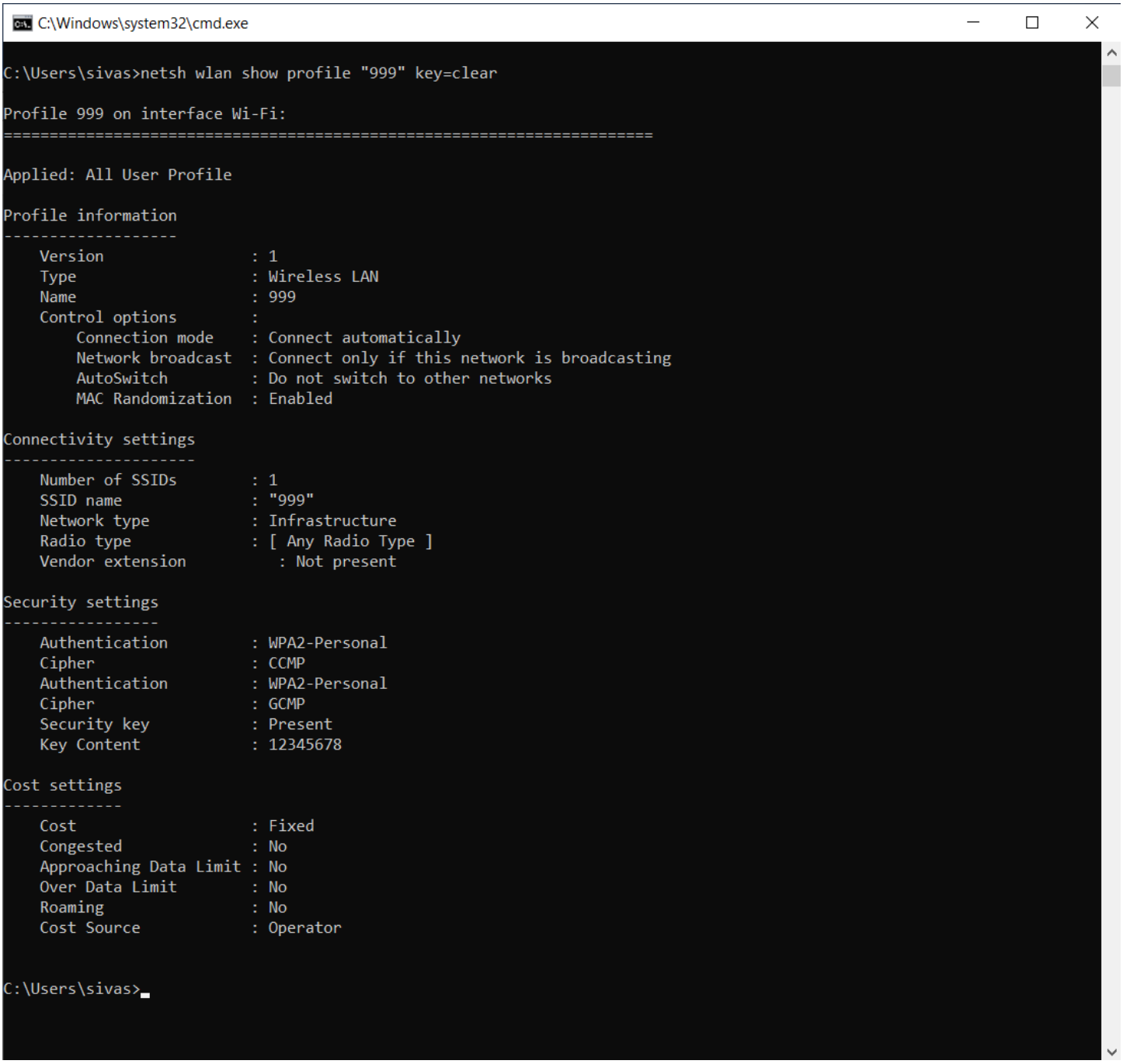
**Syntax: netsh wlan show profile name= "**<Wi-Fi name>**" key=clear**

**Function:** To show the password of the given wi-fi name

**More details:** Refer Microsoft Learn

**Example:**




C:\Windows\system32\cmd.exe
C:\Users\sivas>netsh wlan show profile "999" key=clear
Profile 999 on interface Wi-Fi:
Applied: All User Profile
Profile information
Version : 1
Type : Wireless LAN
Name : 999
Control options :
Connection mode : Connect automatically
Network broadcast : Connect only if this network is broadcasting
AutoSwitch : Do not switch to other networks
MAC Randomization : Enabled
Connectivity settings
Number of SSIDs : 1
SSID name : "999"
Network type : Infrastructure
Radio type : [ Any Radio Type ]
Vendor extension : Not present
Security settings
Authentication : WPA2-Personal
Cipher : CCMP
Authentication : WPA2-Personal
Cipher : GCMP
Security key : Present
Key Content : 12345678
Cost settings
Cost : Fixed
Congested : No
Approaching Data Limit : No
Over Data Limit : No
Roaming : No
Cost Source : Operator
C:\Users\sivas>

## 11. Manage-bde Bitlocker

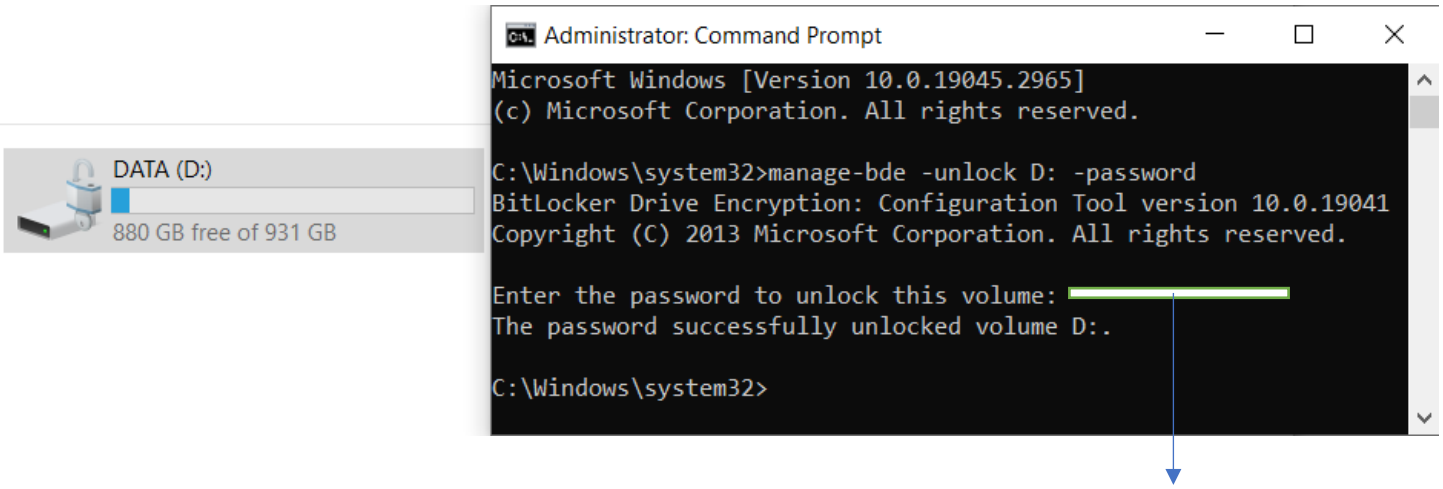
### Unlock:

**Syntax: Manage-bde -unlock** <drive letter>**: -password**

**Function:** run command prompt in Admin mode to unlock the bitlocker drive.

**More details:** Refer Microsoft Learn

**Example:**




**Here enter the password of Bitlocker dirve.**

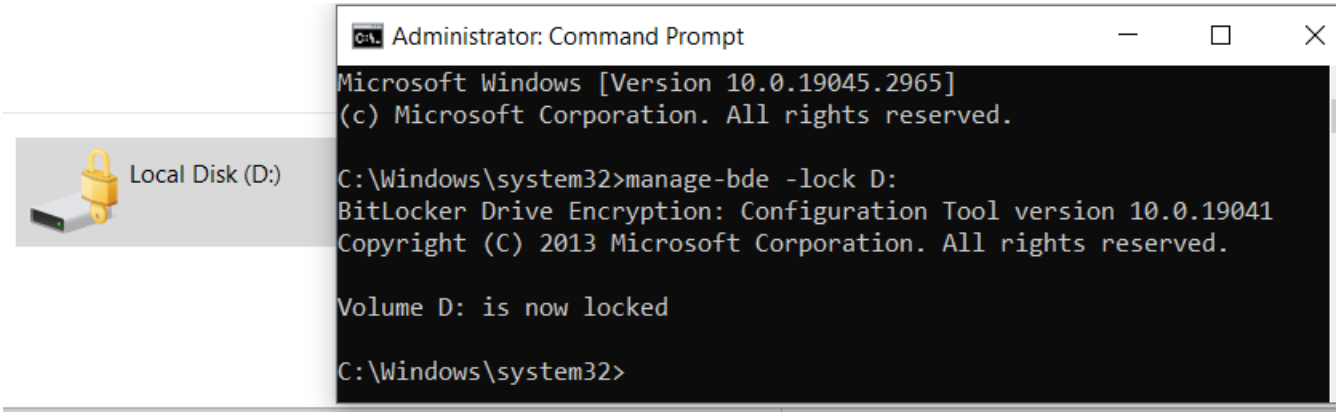
### Lock:

**Syntax: Manage-bde -lock** <drive letter>**:**

**Function:** run command prompt in Admin mode to lock the bitlocker drive. If any application or file is opened in that drive location it will not lock.

**More details:** Refer Microsoft Learn

**Example:**



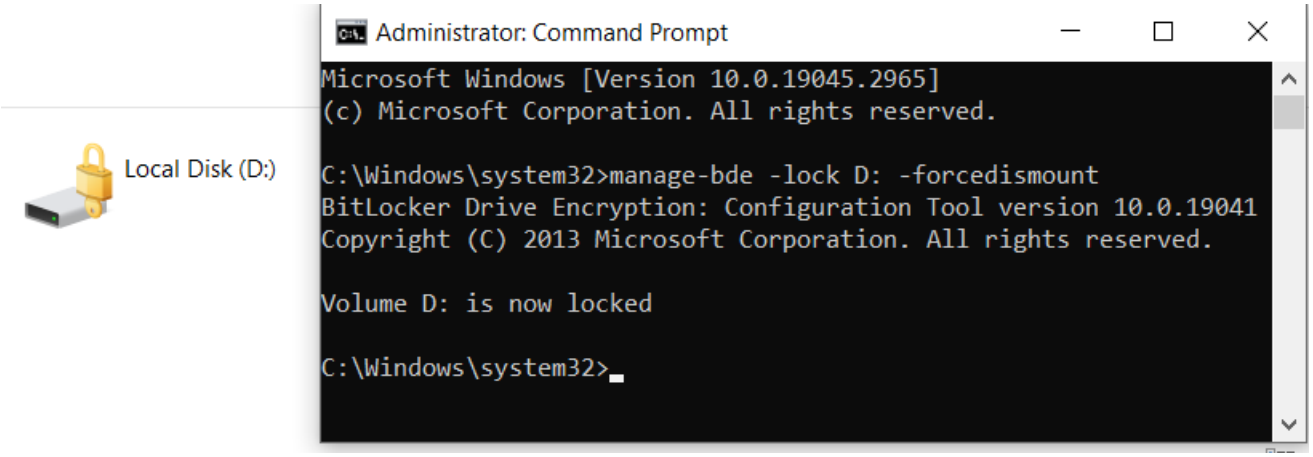
### Force lock:

**Syntax: Manage-bde -lock** <drive letter>**: -forcedismount**

**Function:** run command prompt in Admin mode to lock the bitlocker drive. If any application or file is opened in that drive location then also it will lock the drive.

**More details:** Refer Microsoft Learn

**Example:**




## 12. Activate Windows watermark temporary remove

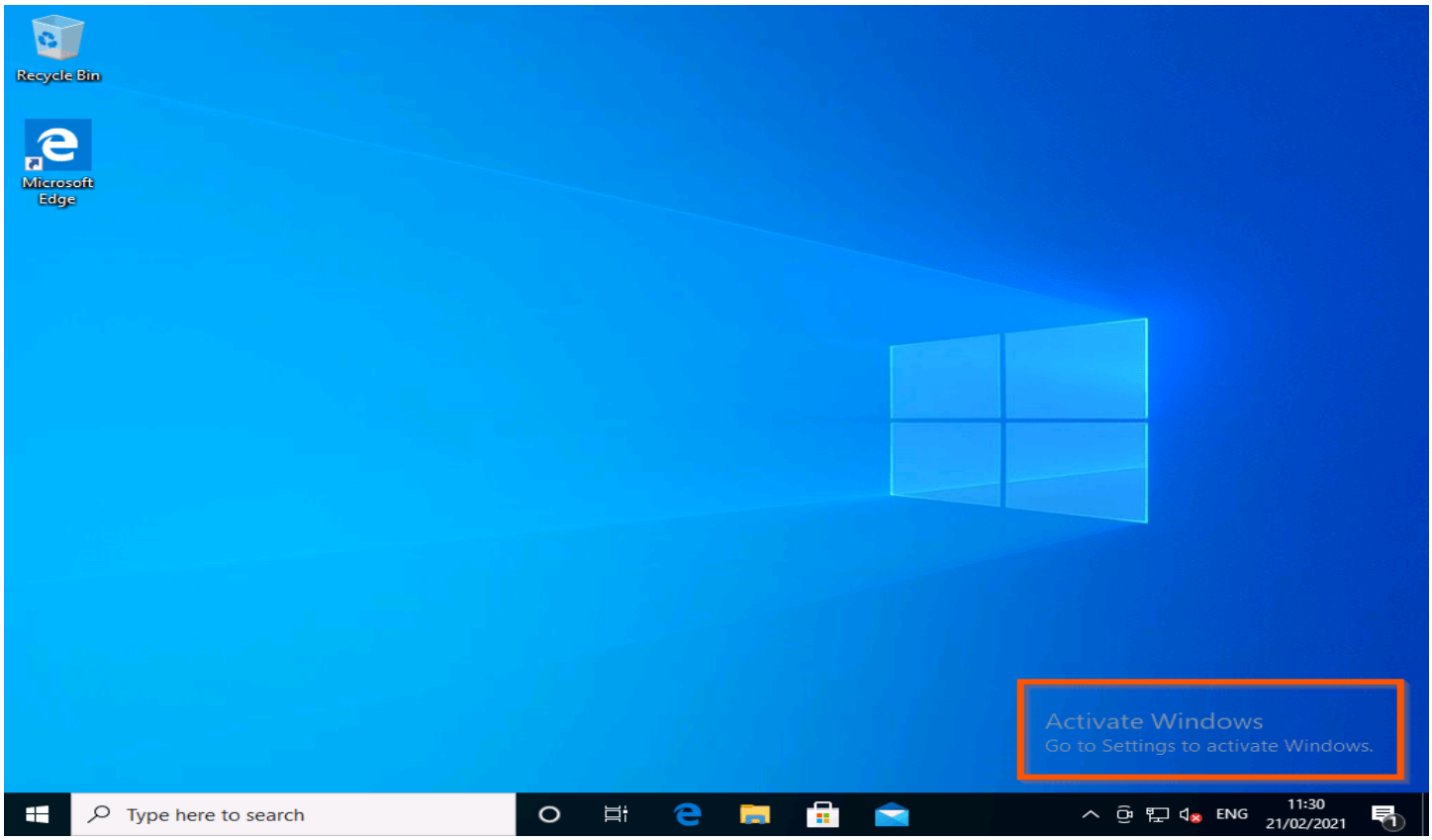
**Syntax: bcdedit -set TESTSIGNING OFF**

**Function:** run command prompt in Admin mode, enter the command and reboot the computer. use this command to temporarily hide the Activate Windows watermark.

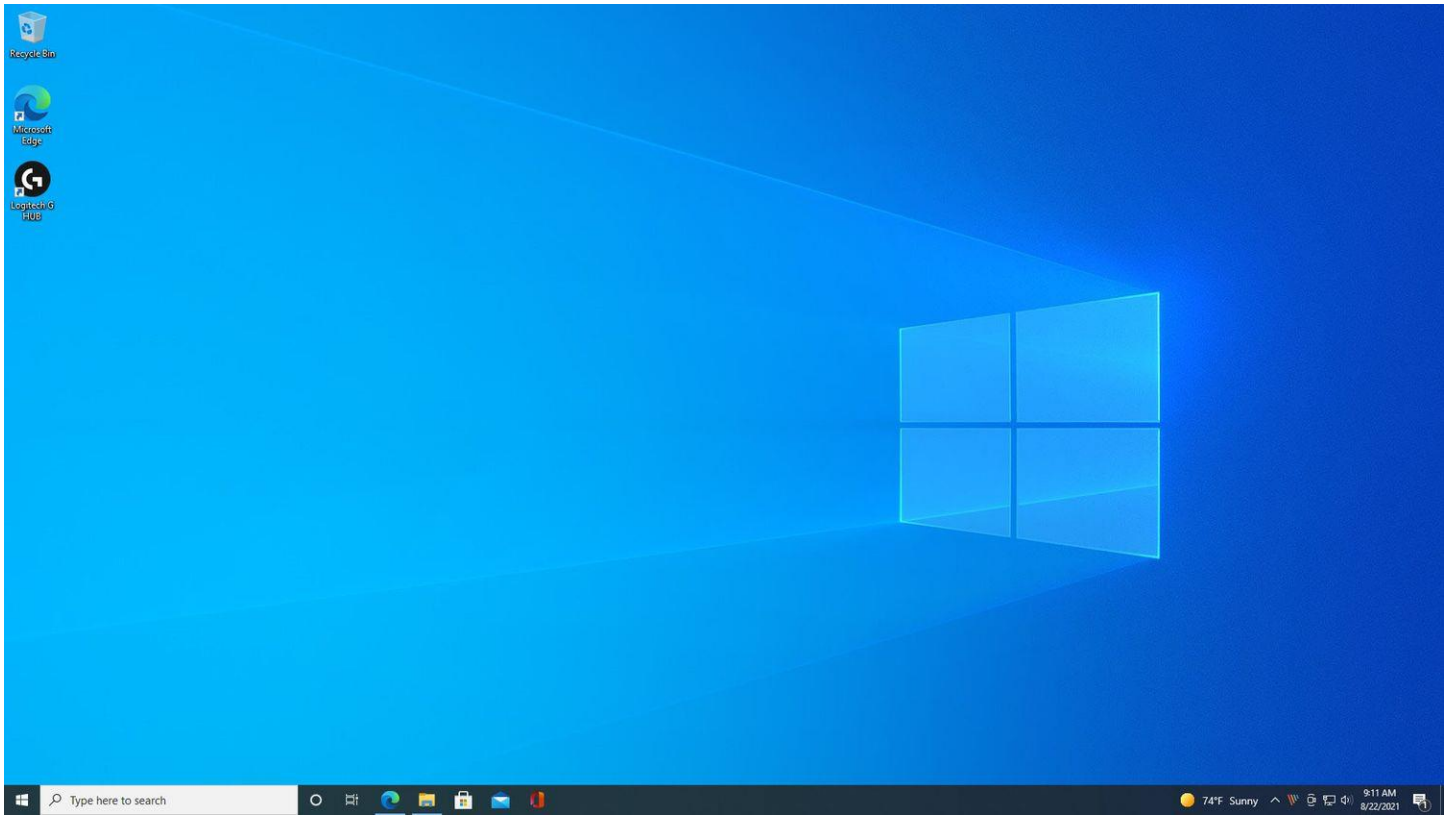
**More details:** I find in YT

**Example:**

Before




After



## 13. Display the content of a file in Command Prompt

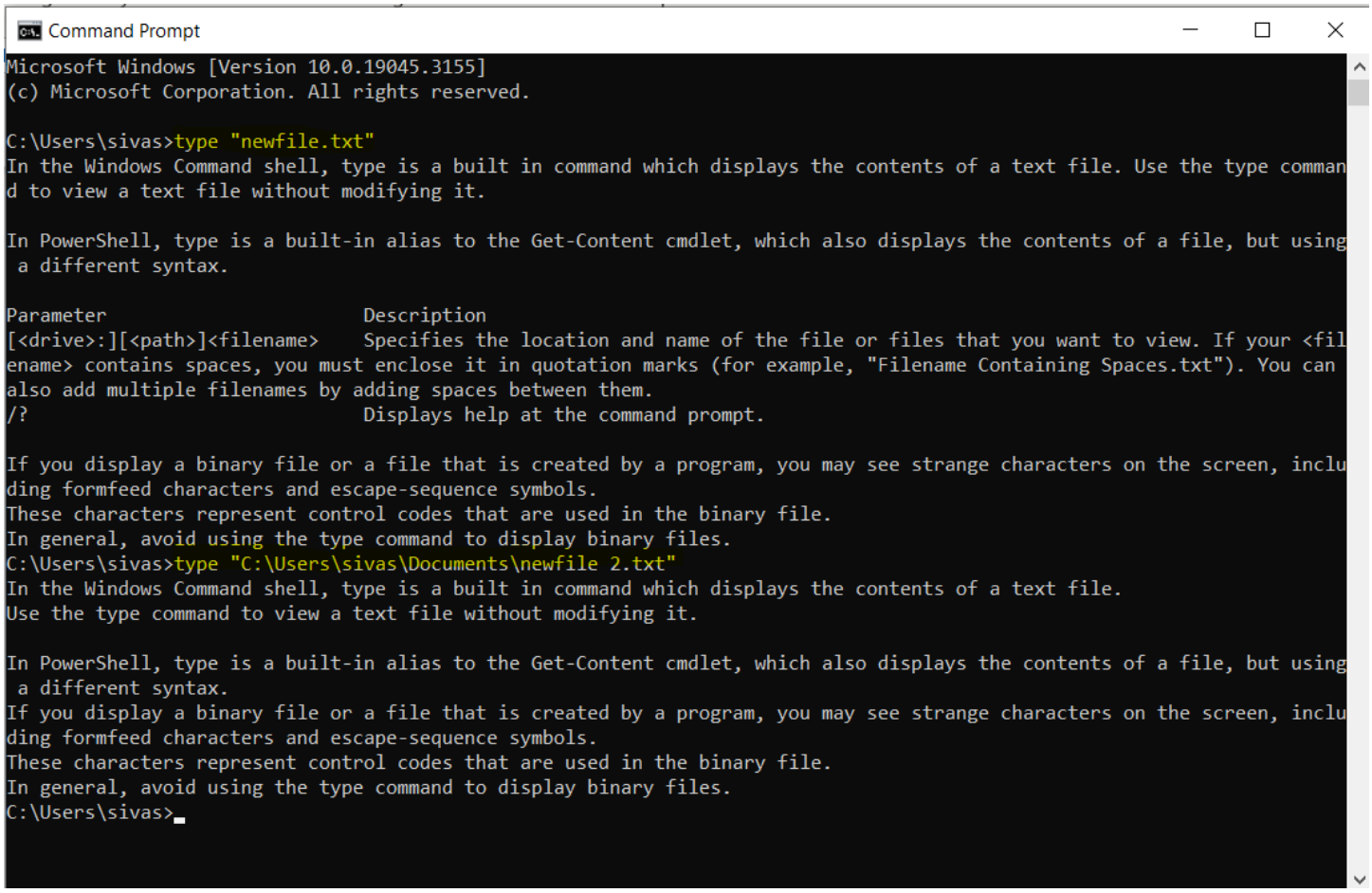
Type:

**Syntax: type "**[<drive>**:**] [<path>] <file name.extension>**"**

**Function:** To view a text file without modifying it and show the file content in the CMD prompt. It show's the particular line of the file. Use MORE cmd with pipe symbol now it shows all the line in the large file.

**More details:** Refer Microsoft Learn

**Example:**




## 14. Create and Delete files and directories form windows command prompt

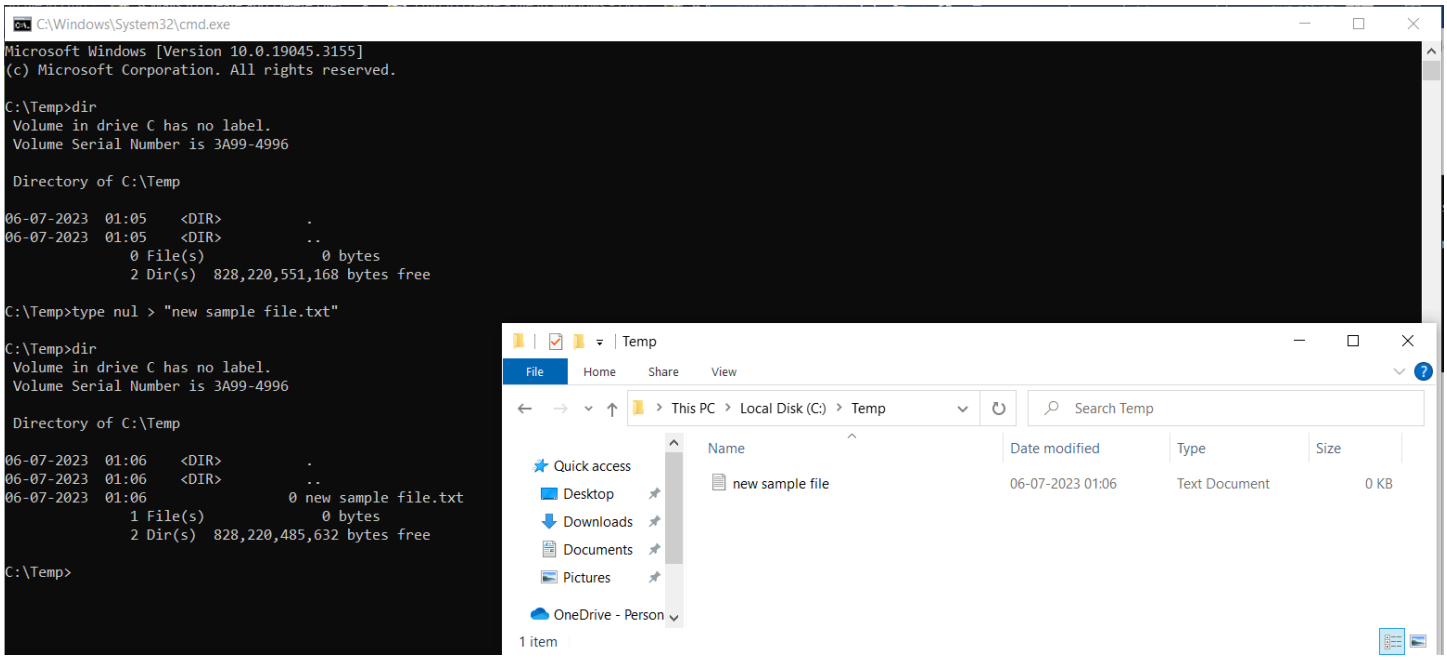
Create empty file:

**Syntax: type nul >** <filename.extension>

**Function:** it create the empty file in using command prompt.

**More details:** Refer wikihow

**Example:**



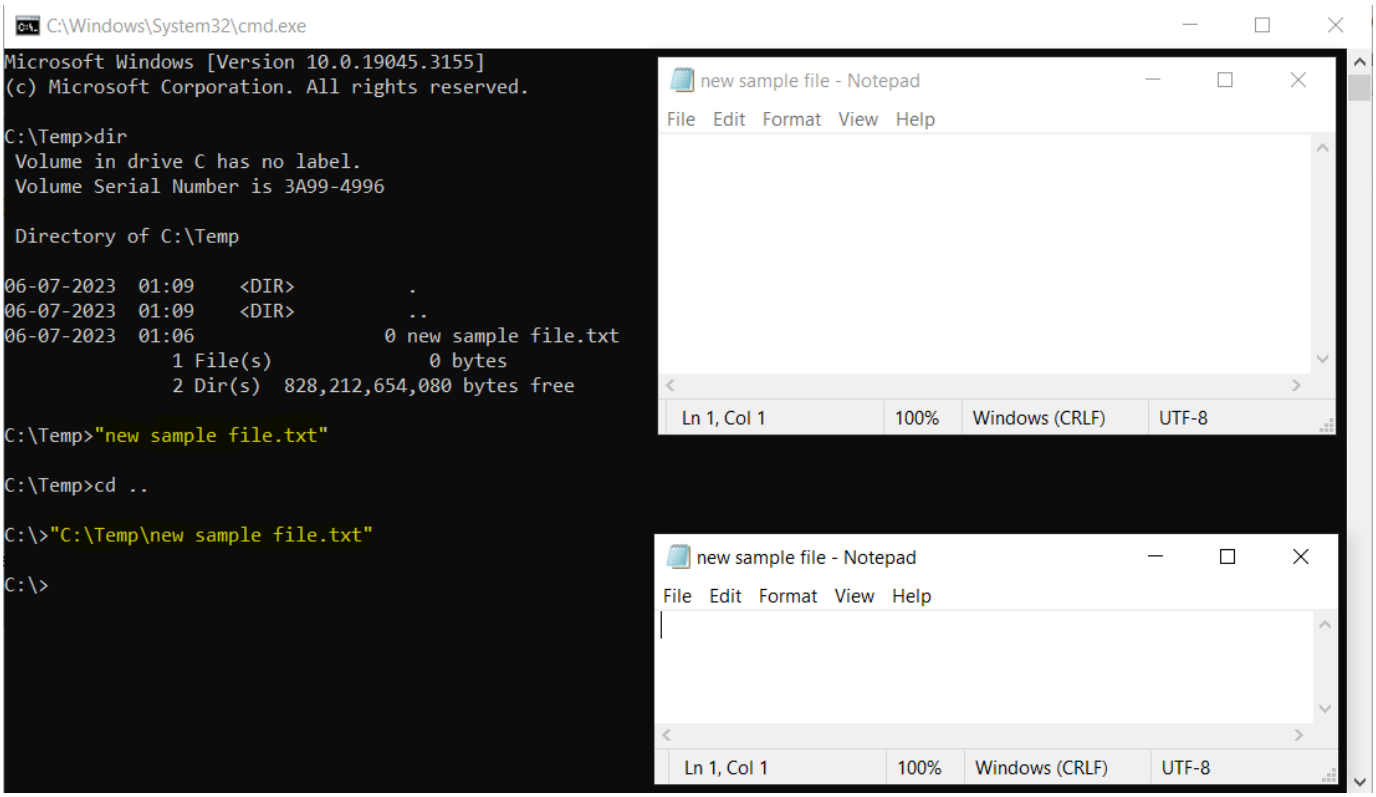

## 15. Open files using command prompt

**Syntax: "**[<drive>**:**] [<path>] <filename.extension>**"**

**Function:** type the file path in command to open any type of file using command prompt with default application which is installed in computer.

**More details:** Google Search

**Example:**



## 16. Command output save to a file using Command Prompt and PowerShell

### Using Command Prompt:

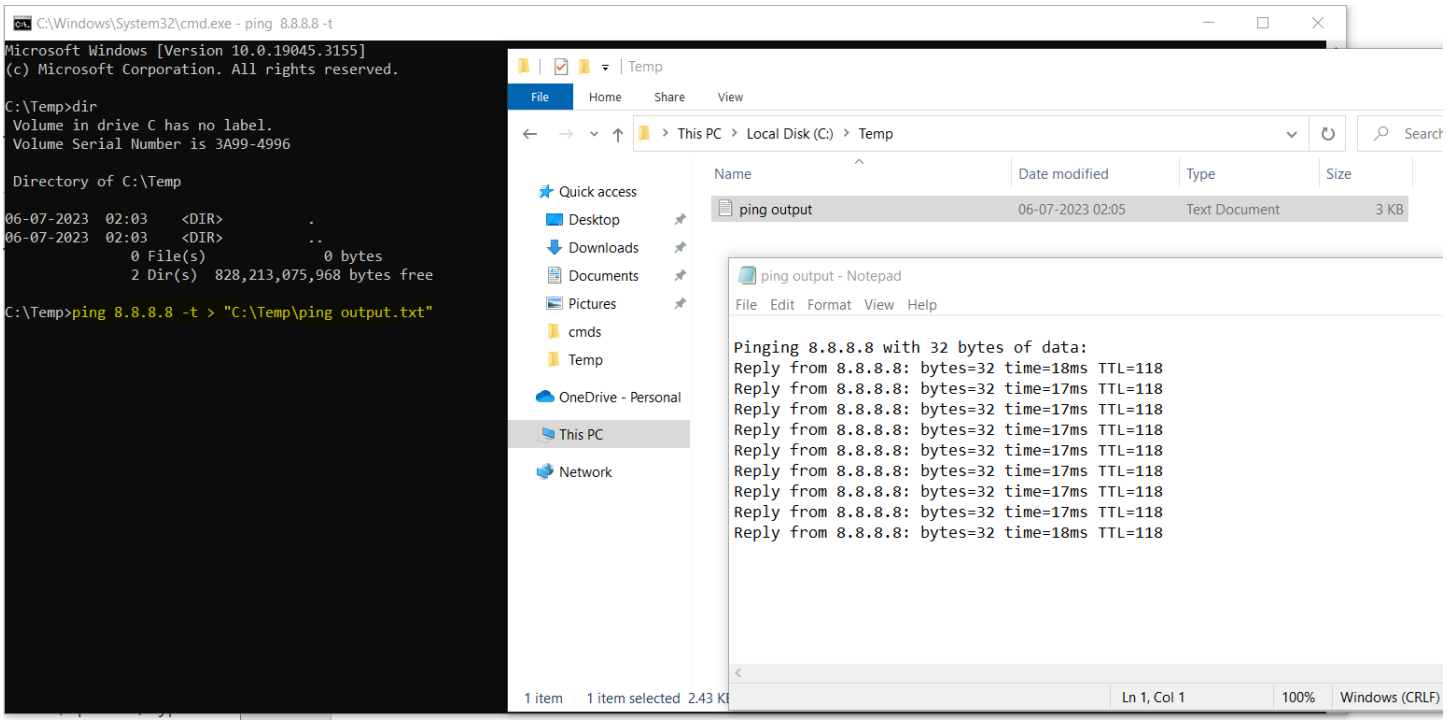
***Create new output file:***

**Syntax:** <your-command> **>** **"**[<drive>**:**] [<path>] <filename.extension>**"**

**Function:** command to save the command output to a text file. **>** is the symbol for create a new text file or over write in existing file to save the output.

**More details:** Refer Windows Central

**Example:**



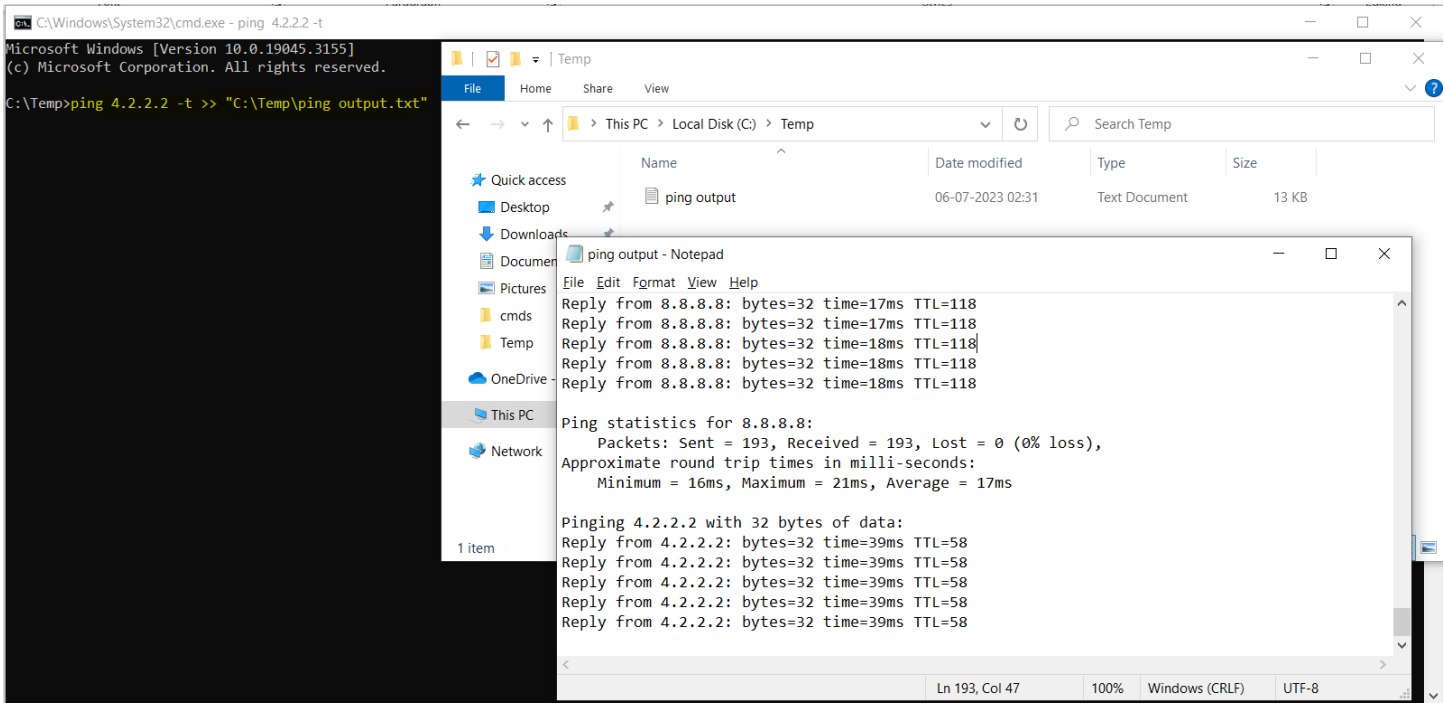

***Continue output in existing file:***

**Syntax:** <your-command> **>>** **"**[<drive>**:**] [<path>] <filename.extension>**"**

**Function: :** command to save the command output to a text file. **>>** is the symbol for write existing file to save the output.

**More details:** Refer Windows Central

**Example:**


C:\Windows\System32\cmd.exe - ping 4.2.2.2 -t
Microsoft Windows [Version 10.0.19045.3155]
(c) Microsoft Corporation. All rights reserved.
C:\Temp>ping 4.2.2.2 -t >> "C:\Temp\ping output.txt"
Temp
File
Home
Share
View
This PC > Local Disk (C:) > Temp
Search Temp
Quick access
Desktop
Downloads
Pictures
cmds
Temp
OneDrive
This PC
Network
1 item
Name
Date modified
Type
Size
ping output
06-07-2023 02:31
Text Document
13 KB
ping output - Notepad
File Edit Format View Help
Reply from 8.8.8.8: bytes=32 time=17ms TTL=118
Reply from 8.8.8.8: bytes=32 time=17ms TTL=118
Reply from 8.8.8.8: bytes=32 time=18ms TTL=118
Reply from 8.8.8.8: bytes=32 time=18ms TTL=118
Reply from 8.8.8.8: bytes=32 time=18ms TTL=118
Ping statistics for 8.8.8.8:
Packets: Sent = 193, Received = 193, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 16ms, Maximum = 21ms, Average = 17ms
Pinging 4.2.2.2 with 32 bytes of data:
Reply from 4.2.2.2: bytes=32 time=39ms TTL=58
Reply from 4.2.2.2: bytes=32 time=39ms TTL=58
Reply from 4.2.2.2: bytes=32 time=39ms TTL=58
Reply from 4.2.2.2: bytes=32 time=39ms TTL=58
Reply from 4.2.2.2: bytes=32 time=39ms TTL=58
Ln 193, Col 47
100%
Windows (CRLF)
UTF-8