**DIGITAL FORENSICS LAB**

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| Exercise 5 | |
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| Date | 7th September, 2021 |

**AIM**

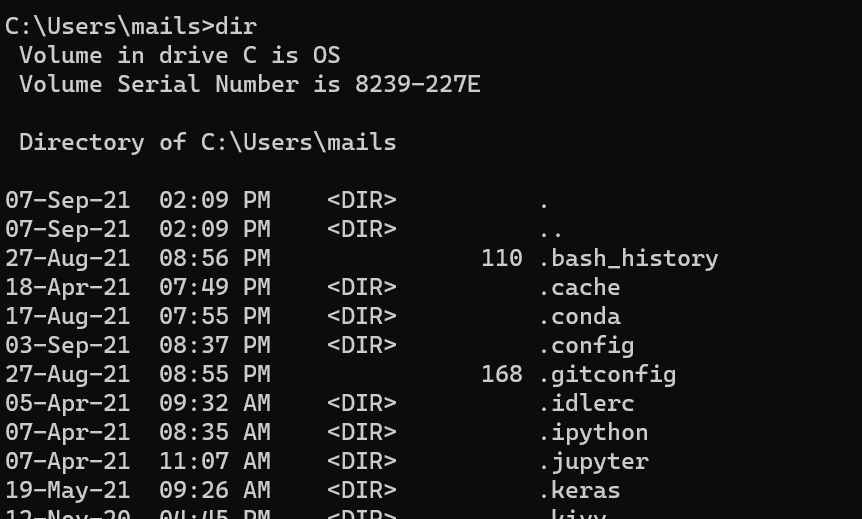
To work with the Windows Command Line.

**SOME COMMANDS**

A few commands are executed and their outputs are shown below.

**dir**

**OUTPUT**

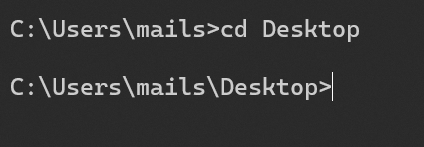


**DESCRIPTION**

Displays information about files, directories and disk space occupied.

**cd**

**OUTPUT**

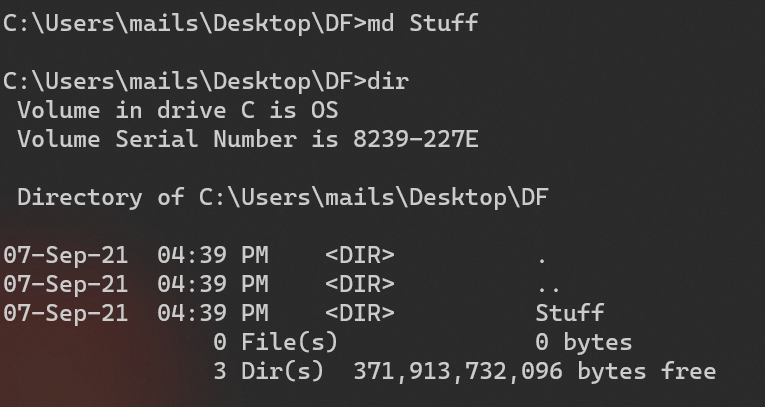


**DESCRIPTION**

Used to change the working directory.

**md**

**OUTPUT**

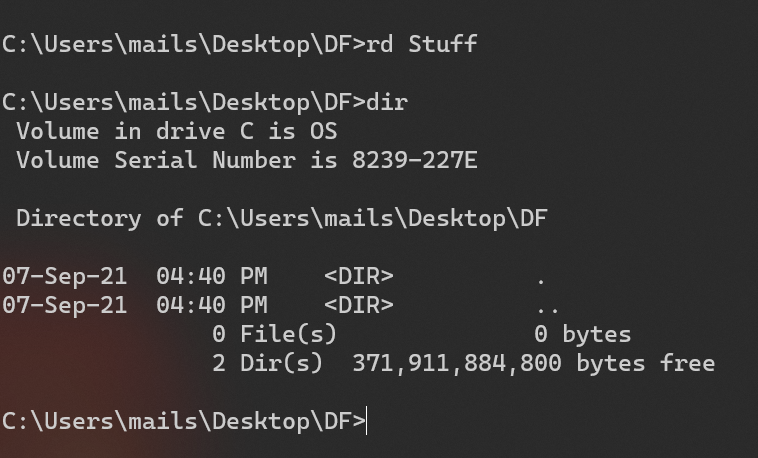


**DESCRIPTION**

Used to make a new empty directory.

**rd**

**OUTPUT**

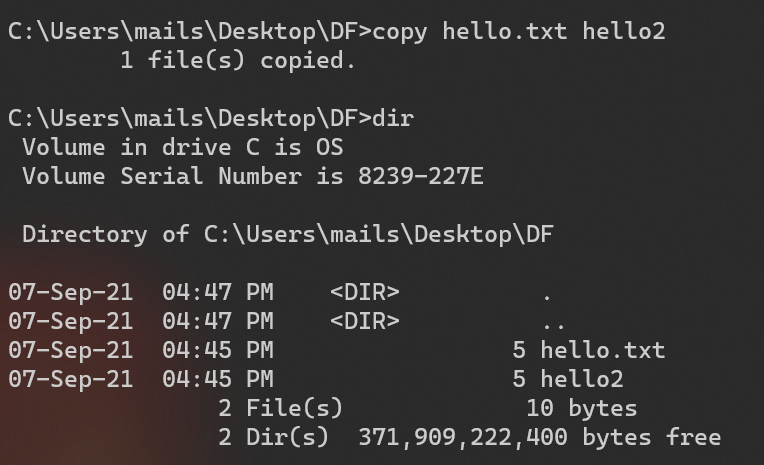


**DESCRIPTION**

Used to make remove a directory and its contents.

**copy**

**OUTPUT**

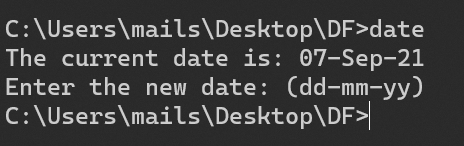


**DESCRIPTION**

Used to copy files. In the above picture, hello.txt was copied and saved as hello2 in the same directory.

**date**

**OUTPUT**

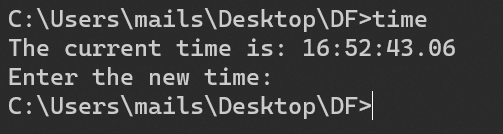


**DESCRIPTION**

Used to display and reset date.

**time**

**OUTPUT**

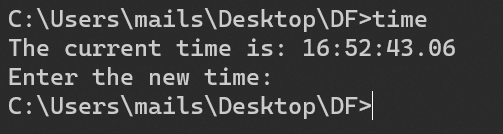


**DESCRIPTION**

Used to display and reset time.

**vol**

**OUTPUT**

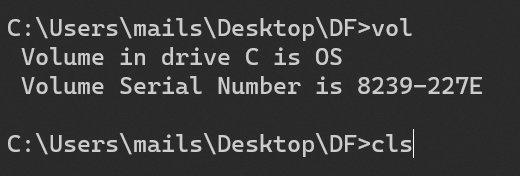


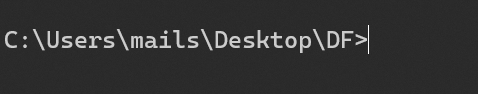
**DESCRIPTION**

Used to display the volume label and volume serial number of a logical drive.

**cls**

**OUTPUT**



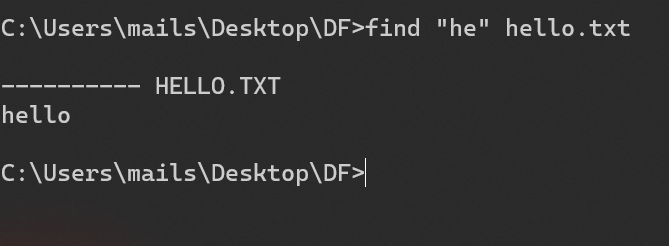


**DESCRIPTION**

Used to clear the console.

**find**

**OUTPUT**



**DESCRIPTION**

Used search for a string of text in a file or multiple files.

**EXERCISE**

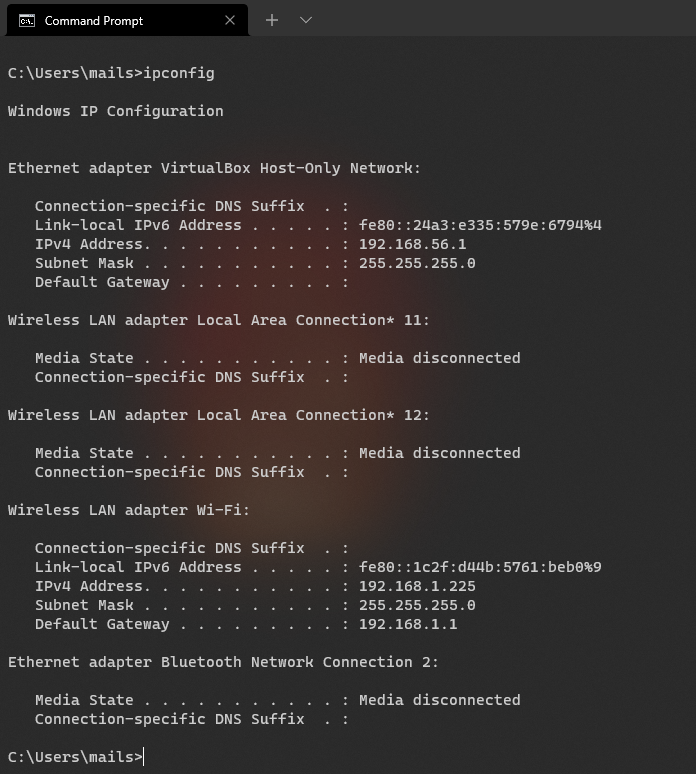
**TASK 1**

Use commands to find the IPv4 address and subnet mask of your computer

**COMMAND**

ipconfig

**OUTPUT**



**OBSERVATION**

This gives all IP information for all the network adapters in use by Windows. We see two adapters listed. The first one ‘Ethernet adapter VirtualBox Host-Only Network’ tells us that this system uses a hypervisor to manage virtual machines that have access to the internet. It has an IPv4 address of 192.168.56.1 and a subnet mask 255.255.255.0. The second, ‘Wireless LAN adapter Wi-Fi’ has an IPv4 address of 192.168.1.255 and the same subnet mask, 255.255.255.0.

**TASK 2**

Create a batch file that will capture the following volatile information from an evidence system and store it a file.

* Current IPv4 address
* Current date
* Current time
* ARP table
* Network connection information

**STEPS AND COMMANDS**

1. Open a text editor and type in the following:

@ECHO OFF

echo "IPv4 Adresses"

ipconfig | findstr /R /C:"IPv4 Address" /C:"Subnet Mask"

echo.

echo "Date is "

date /t

echo.

echo "Time is"

time /t

echo.

echo "ARP table is"

arp -a

echo.

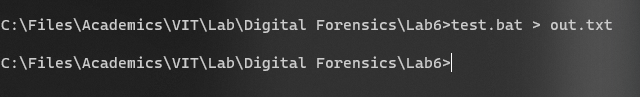
echo "Network Connection information"

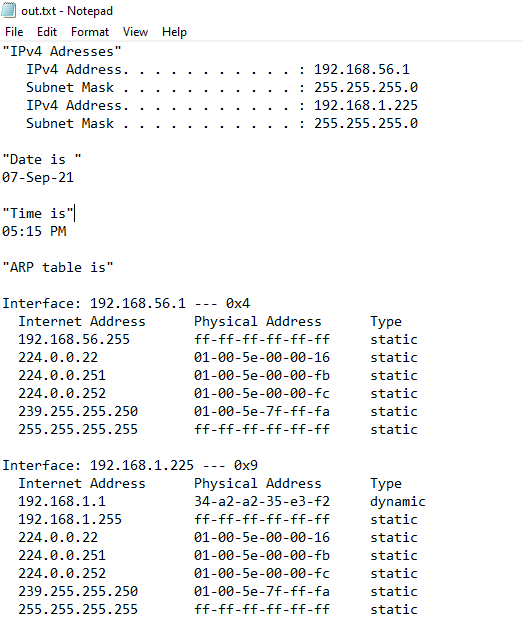
ipconfig

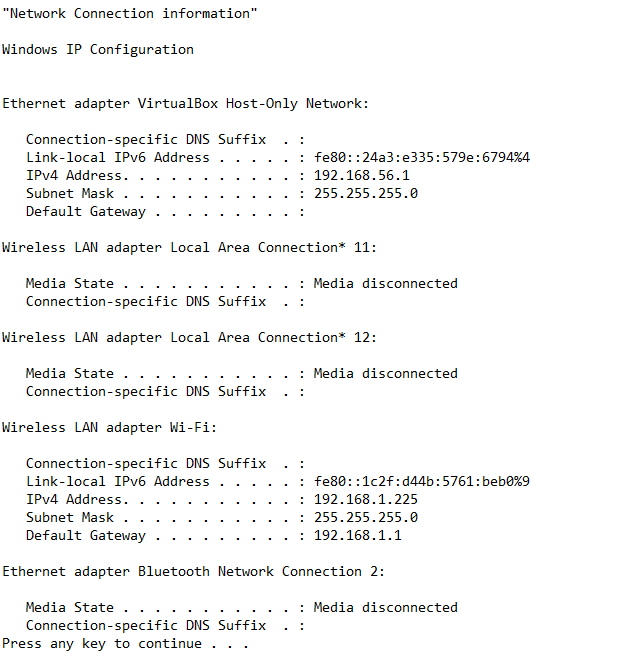
PAUSE

1. Then save it with an extension of “.bat” and select “ANSI” as encoding. Let the type remain as Text Document.
2. Then, double click on the newly created BAT file and verify output.

**OUTPUT**







**OBSERVATION**

Batch files can be used to run a collection of commands and see all their output at once, which makes it easier to work with rather than executing these commands one at a time. The output was then saved into a text file called “out.txt”.

**CONCLUSION**

We have worked with the Windows CLI and with Batch files to retrieve useful information about the device at hand and the network it is connected to.