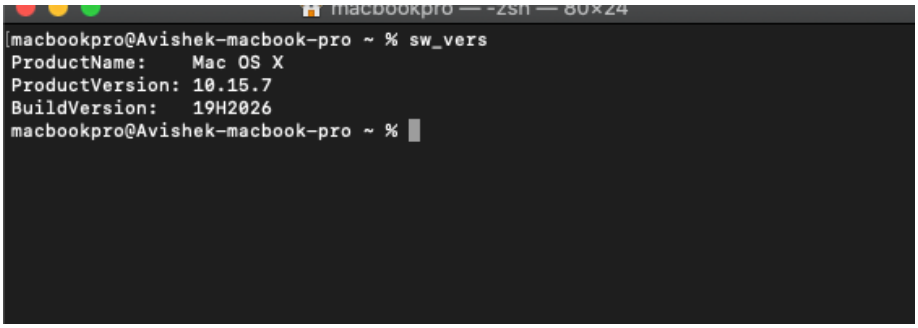
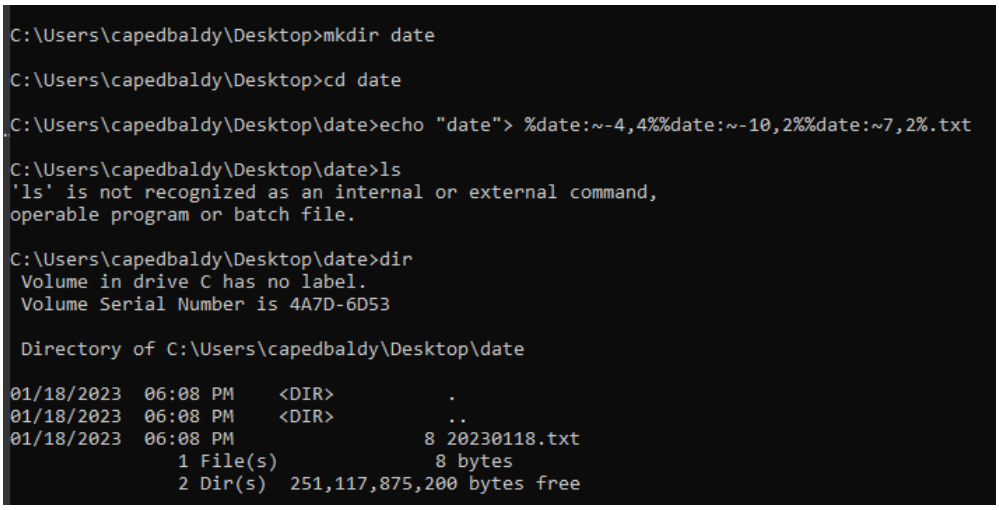
Attempt all questions

Write a command to check our windows version.



Create the directory date. Within that directory create a text file to show the current system date.



Show the system information using the command.

```
C:\Users\capedbaldy\Desktop\date>systeminfo

Host Name:                 DESKTOP-FK9RF48
OS Name:                   Microsoft Windows 10 Pro
OS Version:                10.0.19044 N/A Build 19044
OS Manufacturer:           Microsoft Corporation
OS Configuration:          Standalone Workstation
OS Build Type:             Multiprocessor Free
Registered Owner:          capedbaldy
Registered Organization:   N/A
Product ID:                00331-10000-00001-AA315
Original Install Date:     8/18/2022, 12:35:11 AM
System Boot Time:          1/16/2023, 9:51:21 PM
System Manufacturer:       Acer
System Model:              Aspire E1-571
System Type:               x64-based PC
Processor(s):              1 Processor(s) Installed.
                           [01]: Intel64 Family 6 Model 42 Stepping 7 GenuineIntel ~2200 Mhz
BIOS Version:              Acer V1.10, 8/24/2012
Windows Directory:         C:\WINDOWS
System Directory:          C:\WINDOWS\system32
Boot Device:               \Device\HarddiskVolume1
System Locale:             en-us;English (United States)
Input Locale:              en-us;English (United States)
Time Zone:                 (UTC+05:45) Kathmandu
Total Physical Memory:     3,932 MB
Available Physical Memory: 610 MB
Virtual Memory: Max Size:  6,108 MB
Virtual Memory: Available: 2,037 MB
```

Create the directory called systemInfo and create the file name systemInfo.txt. In that file all your system information should be auto generated using the command.

Launch the systeminfo.txt using notepad using the command.
Briefly explain about the Ping,getmac,ipconfig command.
Ping the google domain and paste the screenshot.

```
(c) Microsoft Corporation. All rights reserved.

C:\Users\capedbaldy>ping google.co.nz

Pinging google.co.nz [2404:6800:4009:828::2003] with 32 bytes of data:
Reply from 2404:6800:4009:828::2003: time=80ms
Reply from 2404:6800:4009:828::2003: time=73ms
Reply from 2404:6800:4009:828::2003: time=66ms
Reply from 2404:6800:4009:828::2003: time=71ms

Ping statistics for 2404:6800:4009:828::2003:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 66ms, Maximum = 80ms, Average = 72ms

C:\Users\capedbaldy>
```

Show the ip address of your device.

```
C:\Users\capedbaldy>ipconfig /all

Windows IP Configuration

   Host Name . . . . . . . . . . . . : DESKTOP-FK9RF48
   Primary Dns Suffix  . . . . . . . :
   Node Type . . . . . . . . . . . . : Hybrid
   IP Routing Enabled. . . . . . . . : No
   WINS Proxy Enabled. . . . . . . . : No
   DNS Suffix Search List. . . . . . : worldlink.com.np

Ethernet adapter Ethernet:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :
   Description . . . . . . . . . . . : Broadcom NetLink (TM) Gigabit Ethernet
   Physical Address. . . . . . . . . : B8-88-E3-56-67-0A
   DHCP Enabled. . . . . . . . . . . : Yes
   Autoconfiguration Enabled . . . . : Yes

Wireless LAN adapter Local Area Connection* 1:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :
   Description . . . . . . . . . . . : Microsoft Wi-Fi Direct Virtual Adapter
   Physical Address. . . . . . . . . : 16-E5-43-7F-86-B3
   DHCP Enabled. . . . . . . . . . . : Yes
   Autoconfiguration Enabled . . . . : Yes

Wireless LAN adapter Local Area Connection* 2:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :
   Description . . . . . . . . . . . : Microsoft Wi-Fi Direct Virtual Adapter #2
   Physical Address. . . . . . . . . : 26-E5-43-7F-86-B3
   DHCP Enabled. . . . . . . . . . . : Yes
   Autoconfiguration Enabled . . . . : Yes

Wireless LAN adapter Wi-Fi:
```

What is the use of the FC command?

Ans:

The use of the FC (File Compare) command is to compare two files. Once fc is run and completed, it returns lines that differ between the two files.

Create the directory called difference. In that directory create two files File1.txt and File2.txt. Add contents in 2 files and perform the ascii comparison of these 2 files.

```
C:\Users\capedbaldy>cd Desktop

C:\Users\capedbaldy\Desktop>mkdir Difference

C:\Users\capedbaldy\Desktop>cd Difference

C:\Users\capedbaldy\Desktop\Difference>echo "Hello"> File1.txt

C:\Users\capedbaldy\Desktop\Difference>echo "Bye"> File2.txt

C:\Users\capedbaldy\Desktop\Difference>fc /L File1.txt File2.txt
Comparing files File1.txt and FILE2.TXT
***** File1.txt
"Hello"
***** FILE2.TXT
"Bye"
*****
```

Generate the power efficiency diagnostics report using the command.

```
C:\WINDOWS\system32>powercfg -energy
Enabling tracing for 60 seconds...
Observing system behavior...
Analyzing trace data...
Analysis complete.

Energy efficiency problems were found.

4 Errors
11 Warnings
37 Informational

See C:\WINDOWS\system32\energy-report.html for more details.

C:\WINDOWS\system32>
```

What does the CHKDSK do?

Ans:

CHKDSK examines disk space and disk use and provides a status report specific to each file system.

```
C:\WINDOWS\system32>CHKDSK
The type of the file system is NTFS.

WARNING!  /F parameter not specified.
Running CHKDSK in read-only mode.

Stage 1: Examining basic file system structure ...
  748544 file records processed.
File verification completed.
 Phase duration (File record verification): 40.47 seconds.
  21160 large file records processed.
 Phase duration (Orphan file record recovery): 0.00 milliseconds.
  0 bad file records processed.
 Phase duration (Bad file record checking): 0.76 milliseconds.

Stage 2: Examining file name linkage ...
  3733 reparse records processed.
  926730 index entries processed.
Index verification completed.
 Phase duration (Index verification): 1.89 minutes.
  0 unindexed files scanned.
 Phase duration (Orphan reconnection): 4.79 seconds.
  0 unindexed files recovered to lost and found.
 Phase duration (Orphan recovery to lost and found): 0.76 milliseconds.
  3733 reparse records processed.
 Phase duration (Reparse point and Object ID verification): 24.12 milliseconds.

Stage 3: Examining security descriptors ...
Security descriptor verification completed.
 Phase duration (Security descriptor verification): 282.98 milliseconds.
  89094 data files processed.
 Phase duration (Data attribute verification): 1.00 milliseconds.
CHKDSK is verifying Usn Journal...
  36850568 USN bytes processed.
Usn Journal verification completed.
 Phase duration (USN journal verification): 1.05 seconds.
```

Explain doskey /history command.

Ans:
Doskey command allows the user to keep a history of all commands used on a computer. Doskey allows frequently used commands to be executed without having to type them each time they are needed.