

LAB 8

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SUBJECT : Cyber Forensics

CODE: 20CYS311

1)Windows management Interface command(WMIC)

```
Command Prompt
Microsoft Windows [Version 10.0.26100.3323]
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C:\Users\Aravind Kamal>wmic bios get serialnumber
SerialNumber
5CD1345YRQ

C:\Users\Aravind Kamal>
```

```
Command Prompt

C:\Users\Aravind Kamal>wmic nic get macaddress
MACAddress

0A:00:27:00:00:1A
00:FF:D0:48:DB:75
50:81:40:78:35:F4
F8:89:D2:8E:73:CB
FA:89:D2:8E:73:CB


82:4F:20:52:41:53
86:E0:20:52:41:53
8A:28:20:52:41:53
FE:89:D2:8E:73:CB

C:\Users\Aravind Kamal>
```

```

C:\Users\Aravind Kamal>wmic cpu get
AddressWidth Architecture AssetTag Availability Caption Characteristics ConfigManagerErrorCode ConfigManagerUserConfig Ex
piStatus CreationClassName CurrentClockSpeed CurrentVoltage DataWidth Description DeviceID ErrorCleared ErrorDescription Ex
tClock Family InstallDate L2CacheSize L2CacheSpeed L3CacheSize L3CacheSpeed LastErrorCode Level LoadPercentage Manufacturer MaxClockSpeed Name
NumberOfCores NumberOfEnabledCores NumberOfLogicalProcessors OtherFamilyDescription PartNumber PNPDeviceID PowerManag
eventCapabilities PowerManagementSupported ProcessId ProcessorType Revision Role SecondLevelAddressTranslationExtensions SerialNumber SocketID
signation Status StatusInfo Stepping SystemCreationClassName SystemName ThreadCount UniqueId UpgradeMethod Version Virtualizati
onFirmwareEnabled VMMonitorModeExtensions VoltageCaps
64 9 Unknown 3 AMD64 Family 25 Model 88 Stepping 0 252 1
Win32_Processor 1988 12 64 AMD64 Family 25 Model 88 Stepping 0 CPU9 AuthenticAMD 3381 AMD Ry
zen 5 5600H with Radeon Graphics 8 197 3872 16384 8 25 19 Unknown 3381 AMD Ry
zen 5 5600H with Radeon Graphics 8 6 12 26488 CPU FALSE Unknown Unknown FP6
OK 3 8 Win32_ComputerSystem LAPTOP-MFQSLA12 6 Model 0, Stepping 0 TRUE
FALSE

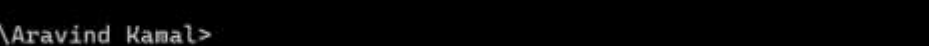
```



The screenshot shows a Windows Command Prompt window titled "Command Prompt". The user is at the C:\Users\Aravind Kamal directory. They have entered the command `wmic cpu get name, deviceid`. The output is as follows:

DeviceID	Name
CPU0	AMD Ryzen 5 5600H with Radeon Graphics

The prompt is now ready for the next command.




A screenshot of a Windows Command Prompt window. The title bar says "Command Prompt". The command entered is `wmic cpu get numberofcores,maxclockspeed,status`. The output is displayed as a table with three columns: `MaxClockSpeed`, `NumberOfCores`, and `Status`. The values are `3301`, `6`, and `OK` respectively.

```

C:\Users\Aravind Kamal>wmic cpu get numberofcores,maxclockspeed,status
MaxClockSpeed  NumberOfCores  Status
3301            6             OK

C:\Users\Aravind Kamal>

```



The screenshot shows a Windows Command Prompt window. The title bar reads "Command Prompt". The command prompt shows the user is at the C:\Users\Aravind Kamal directory. The command entered is `wmic computersystem get totalphysicalmemory`. The output is `TotalPhysicalMemory 16477155328`. The prompt then returns to `C:\Users\Aravind Kamal>`.

```
Command Prompt

C:\Users\Aravind Kamal>wmic partition get name,size,type
Name                               Size                               Type
Disk #1, Partition #0             314572800                         GPT: System
Disk #1, Partition #1             510481964544                      GPT: Basic Data
Disk #1, Partition #2             737148928                         GPT: Unknown
Disk #1, Partition #3             555745280                         GPT: Unknown
Disk #0, Partition #0             1000201740288                     GPT: Basic Data

C:\Users\Aravind Kamal>
```

```
Command Prompt

LAPTOP-MFQLSA13 StartMenuExperienceHost.exe C:\WINDOWS\SystemApps\Microsoft.Windows.StartMenuExperienceHost_cw5n1h2txyewy\StartMenuExperienceHost.exe
23768 1060 37656250 1380 200
StartMenuExperienceHost.exe Microsoft Windows 11 Home Single Lang
uage|C:\WINDOWS\Device\Harddisk1\Partition3 11698 322076 93118
125752 1472 131708 2207361740800 173052
8 128770048 23768 48 1252
239 1399 464
5184926 2 26 129062500 220732742451
2 10.0.26100 163205120 4736 578654

"C:\Program Files\WindowsApps\MicrosoftWindows.Client.WebExperience_525.1301.30.0_x64__cw5n1h2txyewy\Dashboard\Widgets.exe" -ServerName:Microsoft.Windows.DashboardServer
```

```
Command Prompt

C:\Users\Aravind Kamal>wmic product get name, version
Name                               Version
Python 3.11.1 Utility Scripts (64-bit) 3.11.1150.0
Python 3.11.1 Standard Library (64-bit) 3.11.1150.0
Python 3.11.1 Core Interpreter (64-bit) 3.11.1150.0
Python 3.11.1 Test Suite (64-bit) 3.11.1150.0
Microsoft Teams Meeting Add-in for Microsoft Office 1.24.31301
Python 3.11.1 Development Libraries (64-bit) 3.11.1150.0
Windows PC Health Check 3.7.2204.15001
Python 3.11.1 Executables (64-bit) 3.11.1150.0
Python 3.11.1 Documentation (64-bit) 3.11.1150.0
Python 3.11.1 pip Bootstrap (64-bit) 3.11.1150.0
Python 3.11.1 Add to Path (64-bit) 3.11.1150.0
blender 3.0.1
Python 3.11.1 Tcl/Tk Support (64-bit) 3.11.1150.0
Office 16 Click-to-Run Extensibility Component 16.0.14332.20857
Office 16 Click-to-Run Licensing Component 16.0.14332.20857
AMD Ryzen Balanced Driver 7.0.4.10
Windows SDK Desktop Headers x64 10.1.22000.832
Microsoft .NET AppHost Pack - 7.0.20 (x64_x86) 56.80.15184
Windows Mobile Extension SDK Contracts 10.1.22621.3233
PowerShell 7-x64 7.4.7.0
Python 3.9.13 pip Bootstrap (64-bit) 3.9.13150.0
Universal CRT Extension SDK 10.1.22621.3233
ClickOnce Bootstrapper Package for Microsoft .NET Framework 4.8.09256
Application Verifier x64 External Package (OnecoreUAP) 10.1.22621.3233
Microsoft .NET AppHost Pack - 7.0.20 (x64_arm64) 56.80.15184
Microsoft .NET SDK 8.0.400 (x64) from Visual Studio 8.4.24.37502
Microsoft .NET Targeting Pack - 6.0.33 (x86) 48.132.18378
MySQL Workbench 8.0 CE 8.0.36
Windows SDK for Windows Store Apps Metadata 10.1.19041.685
Windows SDK for Windows Store Apps Metadata 10.1.22000.832
Windows Desktop Extension SDK Contracts 10.1.19041.685
WinRT Intellisense Desktop - Other Languages 10.1.22000.832
SQL Server 2022 XEvent 16.0.1000.6
Windows SDK for Windows Store Apps Contracts 10.1.22000.832
Windows App Certification Kit Native Components 10.1.22621.3233
Microsoft Visual C++ 2022 X86 Minimum Runtime - 14.40.33810 14.40.33810
Microsoft.NET.Sdk.iOS.Manifest-8.0.100 (x64) 17.5.8030
Windows SDK Desktop Headers arm 10.1.22000.832
```

Chkdsk

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.26100.3323]
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C:\Windows\System32>chkdsk
The type of the file system is NTFS.
Volume label is OS.

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

Stage 1: Examining basic file system structure ...
 3417088 file records processed.
File verification completed.
Phase duration (File record verification): 41.33 seconds.
 30382 large file records processed.
Phase duration (Orphan file record recovery): 42.32 milliseconds.
 0 bad file records processed.
Phase duration (Bad file record checking): 1.04 milliseconds.

Stage 2: Examining file name linkage ...
 2486 reparse records processed.
 4238526 index entries processed.
Index verification completed.
Phase duration (Index verification): 1.96 minutes.
 0 unindexed files scanned.
Phase duration (Orphan reconnection): 2.32 minutes.
 0 unindexed files recovered to lost and found.
Phase duration (Orphan recovery to lost and found): 0.90 milliseconds.
 2486 reparse records processed.
Phase duration (Reparse point and Object ID verification): 36.25 milliseconds.

Stage 3: Examining security descriptors ...
Security descriptor verification completed.
Phase duration (Security descriptor verification): 235.35 milliseconds.
 410720 data files processed.
Phase duration (Data attribute verification): 0.95 milliseconds.
CHKDSK is verifying Usn Journal...
 40947448 USN bytes processed.
Usn Journal verification completed.
Phase duration (USN journal verification): 247.01 milliseconds.

Windows has scanned the file system and found no problems.
No further action is required.

498517543 KB total disk space.
430391044 KB in 2443924 files.
 1224364 KB in 410721 indexes.
 0 KB in bad sectors.
3560275 KB in use by the system.
 65536 KB occupied by the log file.
63341860 KB available on disk.

 4096 bytes in each allocation unit.
124629385 total allocation units on disk.
15835465 allocation units available on disk.
```

SystemInfo

```
Command Prompt
C:\Users\Aravind Kamal>systeminfo

Host Name:                        LAPTOP-MFQLSA13
OS Name:                          Microsoft Windows 11 Home Single Language
OS Version:                       10.0.26100 N/A Build 26100
OS Manufacturer:                 Microsoft Corporation
OS Configuration:                Standalone Workstation
OS Build Type:                    Multiprocessor Free
Registered Owner:                 Aravind Kamal
Registered Organization:
Product ID:                       00327-36322-01005-AA0EM
Original Install Date:            06-12-2024, 21:06:51
System Boot Time:                 08-03-2025, 18:23:25
System Manufacturer:              HP
System Model:                     HP Pavilion Gaming Laptop 15-ec2xxx
System Type:                       x64-based PC
Processor(s):                     1 Processor(s) Installed.
                                  [01]: AMD64 Family 25 Model 80 Stepping 0 AuthenticAMD
BIOS Version:                     AMI F.24, 22-02-2023
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+05:30) Chennai, Kolkata, Mumbai, New Delhi
Total Physical Memory:             15,714 MB
Available Physical Memory:         5,313 MB
Virtual Memory: Max Size:         28,514 MB
Virtual Memory: Available:        11,604 MB
```

Netsh

```
Command Prompt

C:\Users\Aravind Kamal>netsh wlan show profile

Profiles on interface Wi-Fi:

Group policy profiles (read only)
-----
<None>

User profiles
-----
All User Profile      : 0x4d
All User Profile      : Tenda_9107C8
All User Profile      : TP-Link_E070
All User Profile      : AndroidShare_84
All User Profile      : Amrita
All User Profile      : Amrita_CHN
All User Profile      : motoedge50fusion_9611
All User Profile      : iitmwifi
All User Profile      : 0Xday5
All User Profile      : 0XDAY2
All User Profile      : veni vidi vici
All User Profile      : Amrita_CHN2
All User Profile      : Muthra 5G
All User Profile      : AndroidAP3FD1
All User Profile      : Galaxy A320227
All User Profile      : narzo 50i
All User Profile      : realme narzo 60 Pro 5G
All User Profile      : Galaxy F14
All User Profile      : Redmi A1+
All User Profile      : V2030 2
All User Profile      : V2030
All User Profile      : Mirascreen BF928816
All User Profile      : MiraScreen BF928816
All User Profile      : Galaxy M126D94
All User Profile      : Deco
All User Profile      : Cys
All User Profile      : Tenda_9107C8_EXT
All User Profile      : VEX0
All User Profile      : POCO M6 Pro 5G
All User Profile      : kamalanthan home
```

```
Command Prompt

C:\Users\Aravind Kamal>netsh wlan show profile Amrita_CHN2 key=clear

Profile Amrita_CHN2 on interface Wi-Fi:
=====

Applied: All User Profile

Profile information
-----
Version           : 1
Type              : Wireless LAN
Name              : Amrita_CHN2
Control options   :
    Connection mode : Connect automatically
    Network broadcast : Connect only if this network is broadcasting
    AutoSwitch      : Do not switch to other networks
    MAC Randomization : Disabled

Connectivity settings
-----
Number of SSIDs    : 1
SSID name          : "Amrita_CHN2"
Network type       : Infrastructure
Radio type         : [ Any Radio Type ]
Vendor extension    : Not present

Security settings
-----
Authentication     : WPA2-Personal
Cipher             : GCMP
Authentication     : WPA2-Personal
Cipher             : CCMP
Security key       : Present
Key Content        : amrita@321

Cost settings
-----
Cost               : Unrestricted
Congested          : No
Approaching Data Limit : No
Over Data Limit    : No
Roaming            : No
Cost Source        : Default

C:\Users\Aravind Kamal>
```

Tasklist

Command Prompt				
C:\Users\Aravind Kamal>tasklist				
Image Name	PID	Session Name	Session#	Mem Usage
System Idle Process	0	Services	0	8 K
System	4	Services	0	176 K
Secure System	188	Services	0	65,028 K
Registry	232	Services	0	14,544 K
smss.exe	660	Services	0	4 K
csrss.exe	836	Services	0	1,232 K
wininit.exe	1168	Services	0	4 K
services.exe	1308	Services	0	6,440 K
LsaIso.exe	1316	Services	0	652 K
lsass.exe	1336	Services	0	14,156 K
svchost.exe	1472	Services	0	19,920 K
fontdrvhost.exe	1508	Services	0	4 K
svchost.exe	1612	Services	0	13,380 K
svchost.exe	1656	Services	0	2,148 K
svchost.exe	1748	Services	0	756 K
svchost.exe	1852	Services	0	1,412 K
svchost.exe	1860	Services	0	5,064 K
svchost.exe	1920	Services	0	464 K
svchost.exe	1988	Services	0	2,916 K
svchost.exe	2000	Services	0	876 K
svchost.exe	832	Services	0	8,512 K
svchost.exe	2232	Services	0	21,912 K
svchost.exe	2244	Services	0	4,620 K
OmenCap.exe	2260	Services	0	4 K
NVDisplay.Container.exe	2364	Services	0	6,468 K
svchost.exe	2448	Services	0	2,224 K
svchost.exe	2508	Services	0	880 K
amdfendrsr.exe	2540	Services	0	4 K
atiesrxx.exe	2556	Services	0	360 K
svchost.exe	2568	Services	0	8,240 K
svchost.exe	2624	Services	0	3,940 K
svchost.exe	2688	Services	0	9,020 K
svchost.exe	2860	Services	0	1,268 K
svchost.exe	2868	Services	0	980 K
svchost.exe	2876	Services	0	2,260 K
svchost.exe	2884	Services	0	2,528 K
Memory Compression	3048	Services	0	1,98,316 K
svchost.exe	2488	Services	0	476 K
svchost.exe	3132	Services	0	1,740 K
svchost.exe	3140	Services	0	3,224 K
SysInfoCap.exe	3148	Services	0	18,828 K
TouchpointAnalyticsClient	3156	Services	0	11,260 K
DiagsCap.exe	3164	Services	0	4 K
NetworkCap.exe	3172	Services	0	4 K
AppHelperCap.exe	3180	Services	0	4 K

- Bios – Gives the details of the bios vendor

- C:\wmic bios

```

C:\Users\Aravind Kamal>wmic bios

BiosCharacteristics
Description EmbeddedControllerMajorVersion EmbeddedControllerMinorVersion IdentificationCode InstallableLanguages InstallDate LanguageEdition ListOfLanguages
SerialNumber SMBIOSBiosVersion SMBIOSMajorVersion SMBIOSMinorVersion SMBIOSPresent SoftwareElementID SoftwareElementState Status SystemBiosMajorVersion SystemBiosMinorVersion SystemBiosTargetOperatingSystem Version
(7, 11, 12, 15, 16, 19, 22, 26, 40, 41, 42, 43) ["HPQOEM - 1872889", "F.24", "American Megatrends - 50013"] F.24 en|US|iso8859-1|en|US|iso8859-1|fr|FR|iso8859-1|es|ES|iso8859-1|zh|TW|unicode|zh|CN|unicode| AMI F.24 F.24 3 TRUE 28230222000000.000000 04 15
0+000 SCD1345YRQ F.24 3 3 HPQOEM - 1872889 TRUE F.24 F.24 3 TRUE 28230222000000.000000 04 15

C:\Users\Aravind Kamal>

```

- Bootconfig – displays the bootpartition and related data

- C:\wmic bootconfig

```

C:\Users\Aravind Kamal>wmic bootconfig

BootDirectory Caption ConfigurationPath Description LastDrive Name ScratchDirectory
C:\WINDOWS \Device\Harddisk1\Partition1 C:\WINDOWS \Device\Harddisk1\Partition1 D: BootConfiguration C:\WINDOWS\system32\config\systemprofile\AppData\Local\Temp
C:\WINDOWS \Device\Harddisk1\Partition1 C:\WINDOWS\system32\config\systemprofile\AppData\Local\Temp

C:\Users\Aravind Kamal>

```

- Cdrom – displays the details of any optical disc hardware or virtual optical drives (daemon tools, gamedrive) as well.

- C:\wmic cdrom

```

C:\Users\Aravind Kamal>wmic cdrom

No Instance(s) Available.

C:\Users\Aravind Kamal>

```

CPU – lists the properties of the microprocessor(s) installed.

- C:\wmic cpu list full

```
Command Prompt
C:\Users\Aravind Kamal>wmic cpu list full

AddressWidth=64
Architecture=9
Availability=3
Caption=AMD64 Family 25 Model 80 Stepping 0
ConfigManagerErrorCode=
ConfigManagerUserConfig=
CpuStatus=1
CreationClassName=Win32_Processor
CurrentClockSpeed=1805
CurrentVoltage=12
DataWidth=64
Description=AMD64 Family 25 Model 80 Stepping 0
DeviceID=CPU0
ErrorCleared=
ErrorDescription=
ExtClock=100
Family=107
InstallDate=
L2CacheSize=3072
L2CacheSpeed=
LastErrorCode=
Level=25
LoadPercentage=
Manufacturer=AuthenticAMD
MaxClockSpeed=3301
Name=AMD Ryzen 5 5600H with Radeon Graphics
OtherFamilyDescription=
PNPDeviceID=
PowerManagementCapabilities=
PowerManagementSupported=FALSE
ProcessorId=178BFBFF00A50F00
ProcessorType=3
Revision=20480
Role=CPU
SocketDesignation=FP6
Status=OK
StatusInfo=3
Stepping=0
SystemCreationClassName=Win32_ComputerSystem
SystemName=LAPTOP-MFQLSA13
UniqueId=
UpgradeMethod=6
Version=Model 0, Stepping 0
VoltageCaps=
```

- Gives a view of the column headers line by line
 - Csproduct list full – Gives the serial number and vendor name of the laptop/desktop system as well as the UUID and version number. Very useful for viewing this information without opening your laptop.
- C:wmic csproduct

```
Command Prompt
C:\Users\Aravind>wmic csproduct
Caption Description IdentifyingNumber Name UUID Vendor Version
Computer System Product Computer System Product HCD134E7HQ HP Pavilion Gaming Laptop 15-w2xxx J14W4335-3433-9930-9283-6881487E35F4 HP
C:\Users\Aravind>
```