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Lab6

Basics Commands in Powershell

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\Users\varsha> Get-WmiObject Win32_Bios | select SerialNumber

SerialNumber
-----
83TCN63

PS C:\Users\varsha> Get-WmiObject Win32_LogicalDisk

DeviceID      : C:
DriveType     : 3
ProviderName  :
FreeSpace     : 148003590144
Size          : 238806568704
VolumeName    : OS

DeviceID      : D:
DriveType     : 3
ProviderName  :
FreeSpace     : 999639056384
Size          : 1000068870144
VolumeName    : DATA

PS C:\Users\varsha> $NIC = Get-WmiObject Win32_NetworkAdapterConfiguration | where{$_.IPEnabled -eq "TRUE"}
PS C:\Users\varsha> $NIC

DHCPEnabled    : True
IPAddress      : {192.168.55.106, fe80::f944:c00:b9c3:4c8f}
DefaultIPGateway : {192.168.55.1, fe80::1}
DNSDomain      :
ServiceName    : Qcmain10x64
Description    : Qualcomm QCA9377 802.11ac Wireless Adapter
Index          : 2
```

```
Windows PowerShell
PS C:\Users\varsha> whoami
desktop-013ip0d\varsha
PS C:\Users\varsha> Get-WmiObject -Class Win32_ComputerSystem

Domain        : WORKGROUP
Manufacturer  : Dell Inc.
Model         : Vostro 3491
Name          : DESKTOP-013IP0D
PrimaryOwnerName : varsha
TotalPhysicalMemory : 8346107904

PS C:\Users\varsha> Get-WmiObject -Class Win32_Product -ComputerName . | Format-Wide -Column 1

Oracle Data Provider for .NET Help
Office 16 Click-to-Run Extensibility Component
Office 16 Click-to-Run Localization Component
Office 16 Click-to-Run Licensing Component
Intel(R) ICLs
Dell Update - SupportAssist Update Plugin
Intel(R) Management Engine Components
Microsoft Vc++ redistributables repacked.
OptaneDowngradeGuard
Dell Update for Windows 10
Dell SupportAssist
Microsoft Visual C++ 2019 X64 Additional Runtime - 14.28.29325
Dell SupportAssist Remediation
Microsoft Visual C++ 2019 X64 Minimum Runtime - 14.28.29325
Intel(R) Management Engine Components
Dell Mobile Connect Drivers
Intel(R) Management Engine Driver
Qualcomm Atheros Setup
Microsoft Visual C++ 2005 Redistributable (x64)
Dell Power Manager Service
Dell Digital Delivery Services
Dynamic Application Loader Host Interface Service
AdoptOpenJDK JDK with Hotspot 11.0.1049 (x64)
EFH
Intel(R) LMS
```

Windows PowerShell

PS C:\Users\varsha> ps

Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName
150	8	2272	2792		3860	0	AdminService
333	20	13100	27520	0.23	21856	20	ApplicationFrameHost
150	8	1506	6552		7028	0	AppVshMotify
191	12	7964	16856	0.23	13608	0	audiodg
310	18	51288	82088	3.41	3596	20	chrome
215	13	10192	18604	0.09	5236	20	chrome
1526	55	150104	219292	40.28	12072	20	chrome
409	27	196400	230876	63.67	14964	20	chrome
285	17	7636	19072	0.27	19620	20	chrome
320	20	102364	116964	39.13	19700	20	chrome
215	14	11512	22732	0.16	21284	20	chrome
229	14	13088	32704	0.39	21708	20	chrome
234	15	13888	35772	0.78	21744	20	chrome
1102	28	170288	163956	40.78	22480	20	chrome
316	18	18376	38220	8.77	22976	20	chrome
186	9	2024	7232	0.09	24324	20	chrome
97	7	6232	1496		6172	0	conhost
100	7	6328	5264	0.05	18372	20	conhost
321	17	5788	19484	3.80	29120	20	conhost
586	47	27248	60160	0.48	16244	20	Cortana
957	29	2332	3092		856	0	csrss
673	22	2536	6636		14932	20	csrss
459	17	5268	20744	2.36	8656	20	ctfmon
185	13	3544	8156		11020	0	dashost
167	9	1880	2504		13916	0	DDWCollectorSvcApi
362	23	25488	12012		13864	0	DDWDataCollector
273	17	6632	6884		12988	0	DDWRulesProcessor
1491	129	140080	39104		12332	0	Dell.D3.WinSvc
814	56	86196	88376	2.14	9452	20	DellMobileConnectClient
424	38	19096	47852	0.30	15440	20	DellMobileConnectUniversalClient
1268	86	82460	36460		12820	0	DellSupportAssistRemediationService
214	18	4124	6192		6884	0	dllhost
221	17	3796	12700	0.19	28608	20	dllhost
861	64	117404	60656		11620	0	DSAPI
1462	55	81428	96684		24108	20	dwm
100	7	1624	1556		3964	0	esif.uf
3497	137	151868	179572	24.81	4788	20	explorer
216	15	4164	16336	1.05	4688	20	FileCach
122	8	1548	2260		4652	0	fodhelper
32	6	1664	1016		1096	0	fontdrvhost

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39	8	3728	12636		20256	20	fontdrvhost
171	10	1604	1084		9008	0	GoogleCrashHandler
154	9	1676	408		9028	0	GoogleCrashHandler64
0	0	60	8		0	0	Idle
383	32	17404	44364	0.16	3436	20	IGCC
934	35	48352	63052	1.80	20984	20	IGCCTray
207	11	2548	6020		2224	0	igfxCUIServiceN
473	19	5092	18080	0.69	11664	20	igfxEMN
127	7	1448	1832		1684	0	IntelCpHDPSvc
136	8	1284	1564		5088	0	jhl_service
210	11	3080	2716		4104	0	LWS
555	27	14768	47888	0.61	14196	20	LockApp
1947	30	12280	19412		808	0	lsass
193	11	3964	2180		4864	0	mcapexe
344	23	10028	2620		13032	0	MCCBentAndInstru
352	23	11980	3004		13064	0	MCCBentAndInstru
504	22	11276	16068		7136	0	MCCSPServiceHost
715	27	372964	306200	249.59	9648	0	mcshield
199	12	3244	2240		7900	0	McSmtFwk
467	29	10100	5228		3524	0	McUICnt
469	29	10200	5272		4756	0	McUICnt
585	34	13856	23548	2.81	21724	20	McUICnt
342	23	7800	4264		19308	0	McVulCtr
0	0	1116	371860		2652	0	Memory Compression
1030	39	56092	49356		9276	0	MFAVAVSVC
383	27	7028	8348		3884	0	mfeams
350	12	60120	59792		5344	0	mfevtps
1457	64	50616	54816		5240	0	PMSSHST
473	29	12708	21360	2.05	552	20	ModuleCoreService
848	24	10328	9920		3288	0	ModuleCoreService
941	56	56424	45080		6156	0	ModuleCoreService
401	21	49224	35076		12184	0	ModuleCoreWorker
1471	53	104100	185992	16.00	288	20	msedge
277	17	34352	81856	37.00	2696	20	msedge
173	9	1964	7620	0.08	3476	20	msedge
324	17	12032	32364	2.16	8520	20	msedge
225	14	11200	25236	0.20	9172	20	msedge
209	16	16564	34532	2.92	18092	20	msedge
214	13	6156	18052	0.05	19656	20	msedge
260	15	15312	45104	0.42	20380	20	msedge
595	31	345072	370516	11.16	22032	20	msedge
373	19	54660	95880	5.73	27428	20	msedge
802	28	38220	41716		23780	0	OfficeClickToRun
582	41	31956	7456		3900	0	OneApp.IGCC.WinService

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787	48	27004	57600	5.16	18856	20	OneDrive
550	64	834196	51740		3912	0	oracle
434	30	15900	4232		3632	0	PEFSvc
864	34	64192	80716	2.11	29088	20	powershell
349	17	5084	7436		5464	0	ProtectedModuleHost
130	7	1436	2236		4084	0	Qcsmllansrvx64
308	14	4076	11832		15076	0	Qcsh
0	16	7996	64872		124	0	Registry
165	9	1844	1948		3080	0	RstMwService
346	14	5496	5484		3300	0	RtkAudService64
333	13	3808	11428	0.09	23400	20	RtkAudService64
234	10	1780	8808		23972	20	RtkAudService64
336	17	3944	21896	0.30	572	20	RuntimeBroker
284	14	3628	14284	0.30	588	20	RuntimeBroker
277	17	5676	20664	0.16	4324	20	RuntimeBroker
216	12	2800	13796	0.14	5716	20	RuntimeBroker
286	16	4052	22124	3.02	8256	20	RuntimeBroker
476	24	10328	34176	1.13	17108	20	RuntimeBroker
342	17	6684	24888	0.27	17992	20	RuntimeBroker
264	14	3476	18256	0.14	19336	20	RuntimeBroker
318	18	7304	26544	1.83	19820	20	RuntimeBroker
676	28	13340	40480	2.47	25384	20	RuntimeBroker
1494	96	125924	98928	8.63	13444	20	SearchApp
789	76	39232	48528		23484	0	SearchIndexer
1498	31	10596	15216		10504	0	SecurityHealthService
176	10	2352	9904	0.13	21764	20	SecurityHealthSystray
781	36	20496	18252		1360	0	servicehost
828	12	8976	8544		600	0	services
1533	59	68556	48092		10940	0	Serviceshell
532	22	6656	8876	1.97	14404	20	SettingsSyncHost
104	8	7252	6196		13552	0	SgrmBroker
576	27	16196	52136	1.03	14884	20	ShellExperienceHost
591	18	7100	27756	2.30	864	20	sihost
53	3	1072	540		476	0	smss
246	15	4796	17372	0.28	24356	20	Splwow64
447	22	5968	5956		3424	0	spoolsv
626	29	27892	68032	1.78	20176	20	StartMenuExperienceHost
1098	92	603356	52248		13648	0	SupportAssistAgent
321	20	6700	19584	0.34	644	20	svchost
1371	26	23956	31656		1060	0	svchost
1902	20	19272	18680		1184	0	svchost
545	11	3968	5864		1252	0	svchost
251	13	2700	6532		1528	0	svchost
147	9	2328	4912		1536	0	svchost

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Assignment

1) import os

for root, dirs, files in os.walk("."):

 for filename in files:

 print(filename)

2) import os

arr = os.listdir('.')

print(arr)

3) import os

subdirs = [x[0] for x in os.walk('.')]

print(subdirs)