

Operációs rendszerek BSc

4B. gyak.

2021. 03. 03.

Készítette:

Simonyák János Bsc
Üzemmérnök-informatikus
MZ727W

Miskolc, 2021

1) **feladat** – PowerShell verzió

```
PS C:\Users\Szamuraipalanta> $PSVersionTable.PSVersion
```

Major	Minor	Build	Revision
5	1	19041	610

2) **feladat** – Mai dátum

```
PS C:\Users\Szamuraipalanta> Get-Date
```

Tuesday, March 9, 2021 5:58:40 PM

3) **feladat** – Szolgáltatások

```
PS C:\Users\Szamuraipalanta> Get-Service
```

Status	Name	DisplayName
Running	AarSvc_6a9f2	AarSvc_6a9f2
Stopped	AJRouter	AllJoyn Router Service
Stopped	ALG	Application Layer Gateway Service
Running	AMD Crash Defen...	AMD Crash Defender Service
Running	AMD External Ev...	AMD External Events Utility
Stopped	AnyDesk	AnyDesk Service
Stopped	AppIDSvc	Application Identity
Running	Appinfo	Application Information
Running	Apple Mobile De...	Apple Mobile Device Service
Stopped	AppMgmt	Application Management
Stopped	AppReadiness	App Readiness
Stopped	AppVClient	Microsoft App-V Client
Stopped	AppXSvc	AppX Deployment Service (AppXSVC)
Stopped	AssignedAccessM...	AssignedAccessManager Service
Running	AudioEndpointBu...	Windows Audio Endpoint Builder
Running	Audiosrv	Windows Audio
Stopped	autotimesvc	Cellular Time
Stopped	AxInstSV	ActiveX Installer (AxInstSV)
Stopped	BcastDVRUserSer...	BcastDVRUserService_6a9f2
Stopped	BDESVC	BitLocker Drive Encryption Service
Running	BFE	Base Filtering Engine
Stopped	BITS	Background Intelligent Transfer Ser...
Stopped	BluetoothUserSe...	BluetoothUserService_6a9f2
Running	Bonjour Service	Bonjour Service
Running	BootCampService	Boot Camp Service

4) **feladat** – C:\ meghajtó könyvtárai, fájljai

```
PS C:\Users\Szamuraipalanta> tree
Folder PATH listing for volume Windows
Volume serial number is 5439-6C30
C:.\
|---.android
|---.thumbnails
|   |---fail
|   |   |---blender
|   |---large
|---.VirtualBox
|---.vscode
|   |---extensions
|       |---dotjoshjohnson.xml-2.5.1
|           |---.github
|               |---ISSUE_TEMPLATE
|               |---workflows
|           |---languages
|               |---xquery
|           |---node_modules
|               |---ansi-align
|               |---boxen
|                   |---node_modules
|                       |---ansi-styles
|                       |---chalk
|                           |---types
|                       |---has-flag
|                       |---supports-color
|               |---camelcase
|               |---capture-stack-trace
|               |---ci-info
```

5) **feladat** – Aliasok

```
PS C:\> Get-Alias

CommandType      Name                                Version      Source
-----
Alias            % -> ForEach-Object
Alias            ? -> Where-Object
Alias            ac -> Add-Content
Alias            asnp -> Add-PSnapin
Alias            cat -> Get-Content
Alias            cd -> Set-Location
Alias            CFS -> ConvertFrom-String          3.1.0.0     Microsoft.PowerShell.Utility
Alias            chdir -> Set-Location
Alias            clc -> Clear-Content
```

6) **feladat** – processz alias

```
PS C:\> Set-Alias -Name processz -Value Get-Process
PS C:\> processz
```

Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName
166	12	3792	6360		2272	0	amdfendrsr
312	21	11196	2592	0.28	5384	1	APFS for Windows by Paragon Software
222	19	3236	11080		4948	0	AppleMobileDeviceService
482	27	28220	31740	0.22	11668	1	ApplicationFrameHost
312	15	3488	12416		2964	1	atieclxx
181	8	1436	5504		2280	0	atiesrxx
333	14	13588	20120	9.30	13104	0	audiodg
128	8	1332	5504		4972	0	BootCampService
140	7	1640	7684	0.14	2424	1	CompPkgSrv
100	7	6304	5144	0.02	2200	1	conhost

7) **feladat** – Adott meghajtón levő szolgáltatások, tábla/lista

8) **feladat** – Objektumok ABC sorrend

```
PS C:\> Get-ChildItem -Directory | Sort-Object -Property {$_.Name}
```

Directory: C:\

Mode	LastWriteTime	Length	Name
da----	3/4/2021 2:18 PM		.Trashes
da----	2/12/2021 1:02 AM		adb
d-----	2/23/2021 9:32 PM		AMD
d-----	2/13/2021 7:32 PM		ANDROID USB DRIVER BACKUP
d-----	2/12/2021 1:43 AM		backup
d-----	2/7/2021 7:31 PM		Huion Tablet
d-----	3/9/2021 4:25 PM		Intel
d-----	2/25/2021 3:28 PM		mp190swin64101ea24
d-----	12/7/2019 10:14 AM		PerfLogs
d-----	3/9/2021 4:44 PM		plugins
d-r----	3/7/2021 4:19 PM		Program Files
d-r----	3/7/2021 11:08 PM		Program Files (x86)
d-----	2/17/2021 9:25 AM		TEMP_PARALLELS_TOOLS
d-----	2/11/2021 8:42 PM		tenorshare
d-----	3/9/2021 4:45 PM		themes
d-r----	2/3/2021 10:01 PM		Users
d-----	3/8/2021 4:32 PM		Windows

9) **feladat** – wi-vel kezdődő nevek

```
PS C:\Users\Szamuraipalanta> Get-ChildItem -Path $path -Recurse -Filter "wi*"

Directory: C:\Users\Szamuraipalanta\.vscode\extensions\dotjoshjohnson.xml-2.5.1\node_modules

Mode                LastWriteTime         Length Name
----                -
d-----         2/24/2021  12:02 AM              widest-line

Directory: C:\Users\Szamuraipalanta\.vscode\extensions\dotjoshjohnson.xml-2.5.1\node_modules\colors\themes

Mode                LastWriteTime         Length Name
----                -
-a-----         2/24/2021  12:02 AM           198 winston-dark.js
-a-----         2/24/2021  12:02 AM           197 winston-light.js
```

10) **feladat** – Állapot szerinti csoportosítás

11) **feladat** – Objektumok száma

```
PS C:\Users\Szamuraipalanta> Write-Host (dir C: | measure).Count;
22
PS C:\Users\Szamuraipalanta> |
```

12) **feladat** – Objektumok

13) **feladat** – Objektumok száma

```
PS C:\Users\Szamuraipalanta> Write-Host (dir C: | measure).Count;
22
PS C:\Users\Szamuraipalanta> |
```

14) **feladat** – szoveg változó

```
PS C:\Users\Szamuraipalanta> $szoveg = "Miskolc"
PS C:\Users\Szamuraipalanta> $szoveg
Miskolc
PS C:\Users\Szamuraipalanta> |
```


15) **feladat** – Length, ToUpper, Replace, Contains, Split

```
PS C:\Users\Szamuraipalanta> $szoveg.Replace('o', '0')
Misk0lc
PS C:\Users\Szamuraipalanta> $szoveg.Length
7
PS C:\Users\Szamuraipalanta> $szoveg.ToUpper()
MISK0LC
PS C:\Users\Szamuraipalanta> $szoveg.Replace('o', '0')
Misk0lc
PS C:\Users\Szamuraipalanta> $szoveg.Contains('i')
True
PS C:\Users\Szamuraipalanta> $szoveg.Split('i')
M
sk0lc
PS C:\Users\Szamuraipalanta> |
```

16) **feladat** – MZ727W.txt fájl

a) Definiálás

```
PS D:\Projects\MZ727W0sGyak\MZ727W_0303> New-Item MZ727W.txt

Directory: D:\Projects\MZ727W0sGyak\MZ727W_0303

Mode                LastWriteTime         Length Name
----                -
-a-----          3/9/2021   6:13 PM             0 MZ727W.txt

PS D:\Projects\MZ727W0sGyak\MZ727W_0303> |
```

b) Beolvasás

```
PS D:\Projects\MZ727W0sGyak\MZ727W_0303> Set-Content MZ727W.txt 'Siomonyák János'
PS D:\Projects\MZ727W0sGyak\MZ727W_0303> |
```

c) Megjelenítés

```
PS D:\Projects\MZ727W0sGyak\MZ727W_0303> Get-Content MZ727W.txt
Siomonyák János
PS D:\Projects\MZ727W0sGyak\MZ727W_0303> |
```

d) Sorok száma

```
PS D:\Projects\MZ727W0sGyak\MZ727W_0303> Get-Content MZ727W.txt | Measure-Object -Line

Lines Words Characters Property
-----
1
```

e) Fájl adatai

```
PS D:\Projects\MZ727W0sGyak\MZ727W_0303> Get-ItemProperty MZ727W.txt

Directory: D:\Projects\MZ727W0sGyak\MZ727W_0303

Mode                LastWriteTime         Length Name
----                -
-a-----          3/9/2021   6:14 PM           17 MZ727W.txt
```