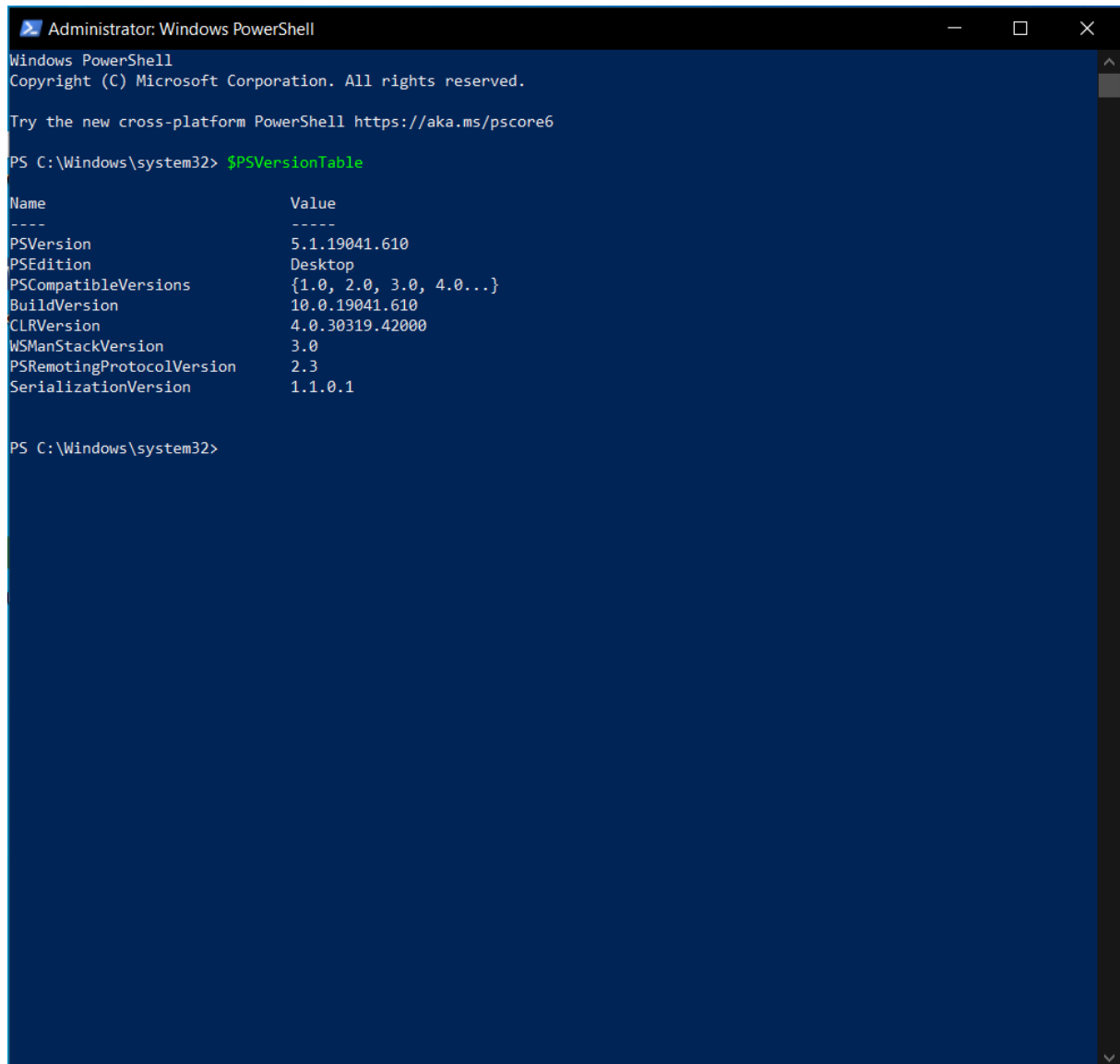


## 1.feladat

Lekérdeztem a PowerShell jelenlegi verzióját.



```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Windows\system32> $PSVersionTable

Name                           Value
----                           -
PSVersion                      5.1.19041.610
PSEdition                      Desktop
PSCompatibleVersions           {1.0, 2.0, 3.0, 4.0...}
BuildVersion                   10.0.19041.610
CLRVersion                     4.0.30319.42000
WSManStackVersion              3.0
PSRemotingProtocolVersion      2.3
SerializationVersion           1.1.0.1

PS C:\Windows\system32>
```

## 2. feladat:

Tagok lekérdezése.

```
Administrator: Windows PowerShell
BuildVersion      10.0.19041.610
CLRVersion        4.0.30319.42000
WSManStackVersion 3.0
PSRemotingProtocolVersion 2.3
SerializationVersion 1.1.0.1

PS C:\Windows\system32> Get-Service | Get-Member

TypeName: System.ServiceProcess.ServiceController

Name                MemberType Definition
-----
Name                AliasProperty Name = ServiceName
RequiredServices    AliasProperty RequiredServices = ServicesDependedOn
Disposed            Event      System.EventHandler Disposed(System.Object, System.EventArgs)
Close               Method     void Close()
Continue            Method     void Continue()
CreateObjRef         Method     System.Runtime.Remoting.ObjRef CreateObjRef(type requestedType)
Dispose             Method     void Dispose(), void IDisposable.Dispose()
Equals              Method     bool Equals(System.Object obj)
ExecuteCommand       Method     void ExecuteCommand(int command)
GetHashCode          Method     int GetHashCode()
GetLifetimeService   Method     System.Object GetLifetimeService()
GetType             Method     type GetType()
InitializeLifetimeService Method System.Object InitializeLifetimeService()
Pause               Method     void Pause()
Refresh             Method     void Refresh()
Start               Method     void Start(), void Start(string[] args)
Stop                Method     void Stop()
WaitForStatus        Method     void WaitForStatus(System.ServiceProcess.ServiceControllerStatus desiredStat...
CanPauseAndContinue Property    bool CanPauseAndContinue {get;}
CanShutdown          Property    bool CanShutdown {get;}
CanStop              Property    bool CanStop {get;}
Container             Property    System.ComponentModel.IContainer Container {get;}
DependentServices     Property    System.ServiceProcess.ServiceController[] DependentServices {get;}
DisplayName           Property    string DisplayName {get;set;}
MachineName           Property    string MachineName {get;set;}
ServiceHandle         Property    System.Runtime.InteropServices.SafeHandle ServiceHandle {get;}
ServiceName           Property    string ServiceName {get;set;}
ServicesDependedOn    Property    System.ServiceProcess.ServiceController[] ServicesDependedOn {get;}
ServiceType           Property    System.ServiceProcess.ServiceType ServiceType {get;}
Site                  Property    System.ComponentModel.ISite Site {get;set;}
StartType             Property    System.ServiceProcess.ServiceStartMode StartType {get;}
Status                Property    System.ServiceProcess.ServiceControllerStatus Status {get;}
ToString             ScriptMethod System.Object ToString();

PS C:\Windows\system32>
```

### 3. feladat:

Szolgáltatások lekérdezése.

```
Administrator: Windows PowerShell

PS C:\Windows\system32> Get-Service

Status Name DisplayName
-----
Running AarSvc_757c232 Agent Activation Runtime_757c232
Running AdobeARMService Adobe Acrobat Update Service
Stopped AJRouter AllJoyn-útválasztó szolgáltatás
Stopped ALG Alkalmazási réteg átjárószolgáltatása
Stopped AppIDSvc Alkalmazásidentitás
Running Appinfo Alkalmazásinformációk
Stopped AppMgmt Alkalmazásvezérlés
Stopped AppReadiness Alkalmazás-előkészítő
Stopped AppVClient Microsoft App-V Client
Stopped AppXSvc AppX Deployment Service (AppXSVC)
Stopped AssignedAccessM... AssignedAccessManager szolgáltatás
Running ASUSLinkNear ASUS Link Near
Running ASUSLinkNearExt ASUS Link Near Extension
Running ASUSLinkRemote ASUS Link Remote
Running ASUSOptimization ASUS Optimization
Running ASUSSoftwareMan... ASUS Software Manager
Running ASUSSystemAnalysis ASUS System Analysis
Running ASUSSystemDiagn... ASUS System Diagnosis
Running AudioEndpointBu... Windows-hangvégpontépítő
Running Audiosrv Windows audió
Stopped autotimesvc Mobilhálózati idő
Stopped AxInstSV ActiveX Telepítő (AxInstSV)
Stopped BcastDVRUserSer... Játékvideó-rögzítő és Közvetítés fe...
Stopped BDESVC BitLocker meghajtótitkosítási szolg...
Running BFE Alap szűrőprogram
Stopped BITS Háttérben futó intelligens átviteli...
Running BluetoothUserSe... Felhasználói Bluetooth-támogatási s...
Running BrokerInfrastru... Háttérfeladatok infrastruktúra-szol...
Running BTAGService Bluetooth-hangátjáró szolgáltatás
Running BthAvctpSvc AVCTP-szolgáltatás
Running bthserv Bluetooth-támogatási szolgáltatás
Running camsvc Képesség hozzáférés-kezelési szolgá...
Stopped CaptureService_... CaptureService_757c232
Running cbdhsvc_757c232 Vágólap felhasználói szolgáltatás_7...
Running CDPSvc Csatlakoztatott eszközök platformja...
Running CDPUserSvc_757c232 Csatlakoztatott eszközök platformja...
Stopped CertPropSvc Tanúsítvány-terjesztés
Running ClickToRunSvc Microsoft Office Kattintásra szolgá...
Stopped ClipSVC Ügyfél-licencelési szolgáltatás (Cl...
Stopped COMSysApp COM+ System Application
Stopped ConsentUxUserSv... ConsentUX_757c232
Running CoreMessagingRe... CoreMessaging
Running cphs Intel(R) Content Protection HECI Se...
Running cplspcon Intel(R) Content Protection HDCP Se...
```

4.feladat:

Lekérdeztem az aliasokat.

```
Administrator: Windows PowerShell
-a---- 2021. 01. 13. 3:54 306688 HeatCore.dll
-a---- 2019. 12. 07. 10:09 12288 help.exe
-a---- 2021. 01. 13. 3:55 58368 HelpPaneProxy.dll
-a---- 2021. 01. 13. 3:54 671744 hgcp1.dll
-a---- 2019. 12. 07. 10:09 228864 hgprint.dll
-a---- 2021. 01. 13. 3:55 729600 hhctrl.ocx
-a---- 2019. 12. 07. 10:09 56832 hhsetup.dll
-a---- 2020. 10. 14. 1:22 37376 hid.dll
-a---- 2019. 12. 07. 10:07 217600 HidCfu.dll
-a---- 2019. 12. 07. 10:09 41472 hidphone.tsp
-a---- 2019. 12. 07. 10:08 36352 hidserv.dll
-a---- 2019. 12. 07. 10:08 131584 hlink.dll
-a---- 2019. 12. 07. 10:08 60416 hmkd.dll
-a---- 2021. 01. 13. 3:55 402432 hnetcfg.dll
-a---- 2021. 01. 13. 3:55 258560 HNetCfgClient.dll
-a---- 2019. 12. 07. 10:09 16896 hnetmon.dll
-a---- 2021. 01. 13. 3:55 1249792 HologramCompositor.dll
-a---- 2021. 01. 13. 3:55 18767872 HologramWorld.dll
-a---- 2021. 01. 13. 3:55 844288 HolographicExtensions.dll
-a---- 2021. 01. 13. 3:55 488960 HolographicRuntimes.dll
-a---- 2021. 01. 13. 3:55 242688 HoloShellRuntime.dll
-a---- 2021. 01. 13. 3:55 169472 HoloSHExtensions.dll
-a---- 2021. 01. 13. 3:55 1092096 HoloSI.PCShell.dll
-a---- 2019. 12. 07. 10:09 14848 HOSTNAME.EXE
-a---- 2019. 12. 07. 10:09 93696 hotplug.dll
-a---- 2018. 06. 20. 11:32 3456608 HPScanTRDrvWn8.dll
-a---- 2018. 06. 20. 11:32 312928 HPWia2DrvRootWn8.dll
-a---- 2021. 01. 13. 3:54 474112 HrtfApo.dll
-a---- 2019. 12. 07. 10:09 427008 html.iec
-a---- 2020. 10. 14. 1:22 35328 httpapi.dll
-a---- 2019. 12. 07. 10:09 18944 httpprxc.dll
-a---- 2021. 01. 13. 3:55 124416 httpprxm.dll
-a---- 2019. 12. 07. 10:09 20480 httpprxp.dll
-a---- 2021. 01. 13. 3:54 261632 HttpsDataSource.dll
-a---- 2019. 12. 07. 10:09 45056 htui.dll
-a---- 2021. 02. 11. 8:47 1268032 hvax64.exe
-a---- 2019. 12. 07. 10:09 66360 hvhostsvc.dll
-a---- 2021. 02. 11. 8:47 1570624 hvix64.exe
-a---- 2020. 12. 09. 15:45 118088 hvloader.dll
-a---- 2021. 02. 11. 8:47 160064 hvsievaluator.exe
-a---- 2021. 02. 11. 8:47 159040 hvsigpext.dll
-a---- 2021. 01. 13. 3:55 138056 HvsiManagementApi.dll
-a---- 2020. 10. 14. 1:22 45880 HvSocket.dll
-a---- 2021. 02. 11. 8:47 24272384 Hydrogen.dll
-a---- 2019. 12. 07. 10:08 50688 IA2ComProxy.dll
-a---- 2019. 12. 07. 10:09 32768 ias.dll
-a---- 2021. 01. 13. 3:55 87552 iasacct.dll
-a---- 2021. 01. 13. 3:55 78848 iasads.dll
-a---- 2021. 01. 13. 3:55 77824 iasdatastore.dll
-a---- 2021. 01. 13. 3:55 92160 iashlpr.dll
```

5.feladat:

Lekérdeztem a parancsok rövidített neveit.

```
Administrator: Windows PowerShell

PS C:\Windows\system32> Get-Alias

CommandType      Name
-----
Alias             % -> ForEach-Object
Alias             ? -> Where-Object
Alias             ac -> Add-Content
Alias             asnp -> Add-PSSnapin
Alias             cat -> Get-Content
Alias             cd -> Set-Location
Alias             CFS -> ConvertFrom-String
Alias             chdir -> Set-Location
Alias             clc -> Clear-Content
Alias             clear -> Clear-Host
Alias             clhy -> Clear-History
Alias             cli -> Clear-Item
Alias             clp -> Clear-ItemProperty
Alias             cls -> Clear-Host
Alias             clv -> Clear-Variable
Alias             cnsn -> Connect-PSSession
Alias             compare -> Compare-Object
Alias             copy -> Copy-Item
Alias             cp -> Copy-Item
Alias             cpi -> Copy-Item
Alias             cpp -> Copy-ItemProperty
Alias             curl -> Invoke-WebRequest
Alias             cvpa -> Convert-Path
Alias             dbp -> Disable-PSBreakpoint
Alias             del -> Remove-Item
Alias             diff -> Compare-Object
Alias             dir -> Get-ChildItem
Alias             dnsn -> Disconnect-PSSession
Alias             ebp -> Enable-PSBreakpoint
Alias             echo -> Write-Output
Alias             epal -> Export-Alias
Alias             epsv -> Export-Csv
Alias             epsn -> Export-PSSession
Alias             erase -> Remove-Item
Alias             etsn -> Enter-PSSession
Alias             exsn -> Exit-PSSession
Alias             fc -> Format-Custom
Alias             fhx -> Format-Hex
Alias             fl -> Format-List
Alias             foreach -> ForEach-Object
Alias             ft -> Format-Table
Alias             fw -> Format-Wide
Alias             gal -> Get-Alias
Alias             gbp -> Get-PSBreakpoint
```

## 6.feladat:

Készítettem egy processz nevű aliast, futtattam és lekérdeztem.

```
Administrator: Windows PowerShell

Alias write -> Write-Output

PS C:\Windows\system32> New-Alias "processz" Get-Process
PS C:\Windows\system32> processz
```

Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName
561	58	115200	147920	20,56	11192	2	AcroRd32
702	28	34816	54352	0,97	12948	2	AcroRd32
405	24	16764	31004	0,59	14988	2	ApplicationFrameHost
123	8	1580	1428	0,02	9404	0	armsvc
280	13	2756	3236	0,70	4296	0	AsusLinkNear
58	5	920	1532	0,17	4320	0	AsusLinkNearExt
299	14	7664	8716	1,80	4304	0	AsusLinkRemote
187	10	2264	4556	5,98	3740	0	AsusOptimization
297	15	2812	15184	0,25	10796	2	AsusOptimizationStartupTask
136	11	1496	7900	0,03	3156	2	AsusOSD
441	18	8928	14124	2,50	4340	0	AsusSoftwareManager
357	22	32784	31980	0,59	10444	2	AsusSoftwareManagerAgent
1512	14	3856	9952	1,73	4328	0	AsusSystemAnalysis
146	9	1584	5512	0,06	4392	0	AsusSystemDiagnosis
289	16	18112	25980	26,16	16024	0	audiodg
557	28	24088	2148	0,59	12968	2	Calculator
213	13	7584	15560	1,52	2460	2	chrome
211	14	11376	19556	0,13	5088	2	chrome
328	29	330028	333312	881,28	5572	2	chrome
193	9	1716	6872	0,13	6976	2	chrome
277	16	7116	18708	43,56	7476	2	chrome
1410	34	277940	213032	3 275,86	9340	2	chrome
252	17	20700	39052	6,36	11112	2	chrome
247	16	18856	37316	1,92	11416	2	chrome
187	16	19068	28944	8,98	12408	2	chrome
300	18	27404	45100	155,45	13336	2	chrome
279	19	45188	81416	39,91	14380	2	chrome
1631	62	109384	176316	379,20	14920	2	chrome
228	15	16160	35908	0,36	16388	2	chrome
139	7	1668	8472	0,05	12232	2	CompPkgSrv
97	7	6220	1272	0,03	3892	0	conhost
267	14	5916	17512	10,08	4316	2	conhost
726	52	36064	58260	1,03	8776	2	Cortana
497	18	7436	24740	4,78	4376	2	ctfmon
826	26	1940	3408	5,16	772	0	csrss
697	25	2452	6208	34,56	16444	2	csrss
707	46	34936	57176	65,69	796	2	Discord
302	20	12520	56324	0,67	6760	2	Discord
746	27	76824	60556	0,97	10812	2	Discord
212	15	11004	22544	0,09	12864	2	Discord
415	21	16288	37188	4,06	13252	2	Discord
837	114	231384	164640	660,73	13356	2	Discord

```
Administrator: Windows PowerShell
```

911	92	104764	56912	205,33	7664	0	svchost
295	15	3984	10328	4,86	8940	0	svchost
137	8	1644	7944	0,13	9008	2	svchost
220	17	2124	3556	2,14	10096	0	svchost
387	13	5164	6868	1,75	10504	0	svchost
383	15	8760	17192	2,23	11584	0	svchost
221	12	2868	5788	37,56	11588	0	svchost
455	19	6316	9432	2,66	12228	0	svchost
312	14	3232	5696	1,08	12388	0	svchost
260	12	2660	7364	4,83	12504	0	svchost
189	14	6380	3176	0,14	14208	0	svchost
379	18	4800	18680	0,83	14320	0	svchost
142	9	1752	8564	0,02	14616	2	svchost
184	10	2012	4280	9,08	14620	0	svchost
382	18	9012	29612	3,14	16292	2	svchost
170	9	1964	2132	0,61	16436	0	svchost
4445	0	240	17868	3 690,19	4	0	System
486	23	8012	30832	0,64	13368	2	SystemSettingsBroker
874	40	41588	39252	12,17	2852	0	taskhostw
307	35	8452	18436	0,92	10056	2	taskhostw
462	127	262588	234512	96,11	6584	2	Teams
1178	52	120644	119652	33,20	6684	2	Teams
331	20	11504	60904	0,36	7852	2	Teams
455	22	17144	43356	12,06	8616	2	Teams
766	29	97224	73892	2,73	9984	2	Teams
304	23	23536	74596	0,11	10200	2	Teams
332	27	32328	51412	0,55	12608	2	Teams
1120	67	158660	120992	89,09	14792	2	Teams
297	59	78052	92856	5,38	15068	2	Teams
548	23	12908	47720	1,41	6616	2	TextInputHost
117	7	1284	7124	0,02	3216	0	unsecapp
124	9	2076	9020	0,17	13660	2	UserOOBEBroker
493	30	18396	1772	0,25	9584	2	Video.UI
169	11	1616	3616	0,09	884	0	wininit
281	12	2544	10312	0,25	13564	2	winlogon
148	8	1764	2932	2,80	3836	0	wlanext
314	19	30792	37120	29,55	7800	0	WmiPrvSE
302	10	6444	3900	3,77	1136	0	WUDFHost
352	16	7852	11656	3,20	1268	0	WUDFHost
626	41	26176	11728	0,56	11556	2	YourPhone

```
PS C:\Windows\system32> Get-Alias processz
```

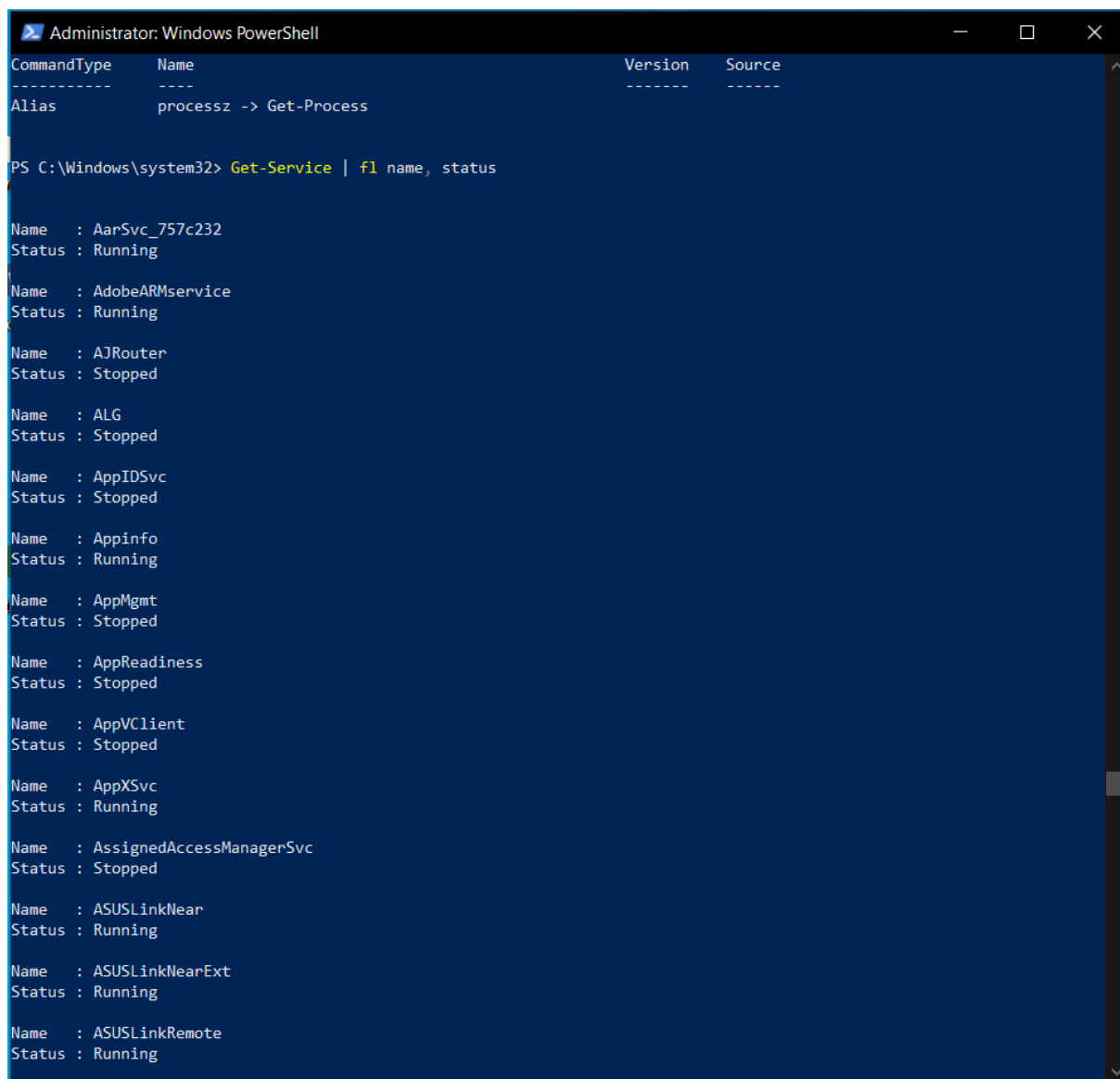
CommandType	Name	Version	Source
Alias	processz -> Get-Process		

```
PS C:\Windows\system32>
```

7.feladat:

Kilistáztam a megadott dolgokat

a

A screenshot of a Windows PowerShell window titled "Administrator: Windows PowerShell". The window has a dark blue background. At the top, there is a header with columns: "CommandType", "Name", "Version", and "Source". Below this, a command is entered: "PS C:\Windows\system32> Get-Service | fl name, status". The output of the command is a list of services and their status, displayed in a table-like format. The services listed are: AarSvc\_757c232 (Running), AdobeARMservice (Running), AJRouter (Stopped), ALG (Stopped), AppIDSvc (Stopped), Appinfo (Running), AppMgmt (Stopped), AppReadiness (Stopped), AppVClient (Stopped), AppXSvc (Running), AssignedAccessManagerSvc (Stopped), ASUSLinkNear (Running), ASUSLinkNearExt (Running), and ASUSLinkRemote (Running).

CommandType	Name	Version	Source
Alias	processz -> Get-Process		
PS C:\Windows\system32> Get-Service   fl name, status			
Name	: AarSvc_757c232		
Status	: Running		
Name	: AdobeARMservice		
Status	: Running		
Name	: AJRouter		
Status	: Stopped		
Name	: ALG		
Status	: Stopped		
Name	: AppIDSvc		
Status	: Stopped		
Name	: Appinfo		
Status	: Running		
Name	: AppMgmt		
Status	: Stopped		
Name	: AppReadiness		
Status	: Stopped		
Name	: AppVClient		
Status	: Stopped		
Name	: AppXSvc		
Status	: Running		
Name	: AssignedAccessManagerSvc		
Status	: Stopped		
Name	: ASUSLinkNear		
Status	: Running		
Name	: ASUSLinkNearExt		
Status	: Running		
Name	: ASUSLinkRemote		
Status	: Running		

b

```
Kijelölés Administrator: Windows PowerShell

Name : XboxGipSvc
Status : Stopped

Name : XboxNetApiSvc
Status : Stopped

PS C:\Windows\system32> Get-Service | ft name, status

Name                                     Status
----                                     -
AarSvc_757c232                          Running
AdobeARMservice                        Running
AJRouter                               Stopped
ALG                                     Stopped
AppIDSvc                               Stopped
AppInfo                                Running
AppMgmt                                Stopped
AppReadiness                           Stopped
AppVClient                             Stopped
AppXSvc                                Running
AssignedAccessManagerSvc               Stopped
ASUSLinkNear                           Running
ASUSLinkNearExt                        Running
ASUSLinkRemote                         Running
ASUSOptimization                       Running
ASUSSoftwareManager                   Running
ASUSSystemAnalysis                     Running
ASUSSystemDiagnosis                   Running
AudioEndpointBuilder                   Running
Audiosrv                               Running
autotimesvc                            Stopped
AxInstSV                               Stopped
BcastDVRUserService_757c232            Stopped
BDESVC                                 Stopped
BFE                                     Running
BITS                                   Stopped
BluetoothUserService_757c232           Running
BrokerInfrastructure                   Running
BTAGService                            Running
BthAvctpSvc                            Running
bthserv                                Running
camsvc                                 Running
CaptureService_757c232                 Stopped
cbdhsvc_757c232                        Running
CDPSvc                                 Running
CDPUserService_757c232                 Running
CertPropSvc                            Stopped
ClickToRunSvc                           Running
```



C

```
Administrator: Windows PowerShell

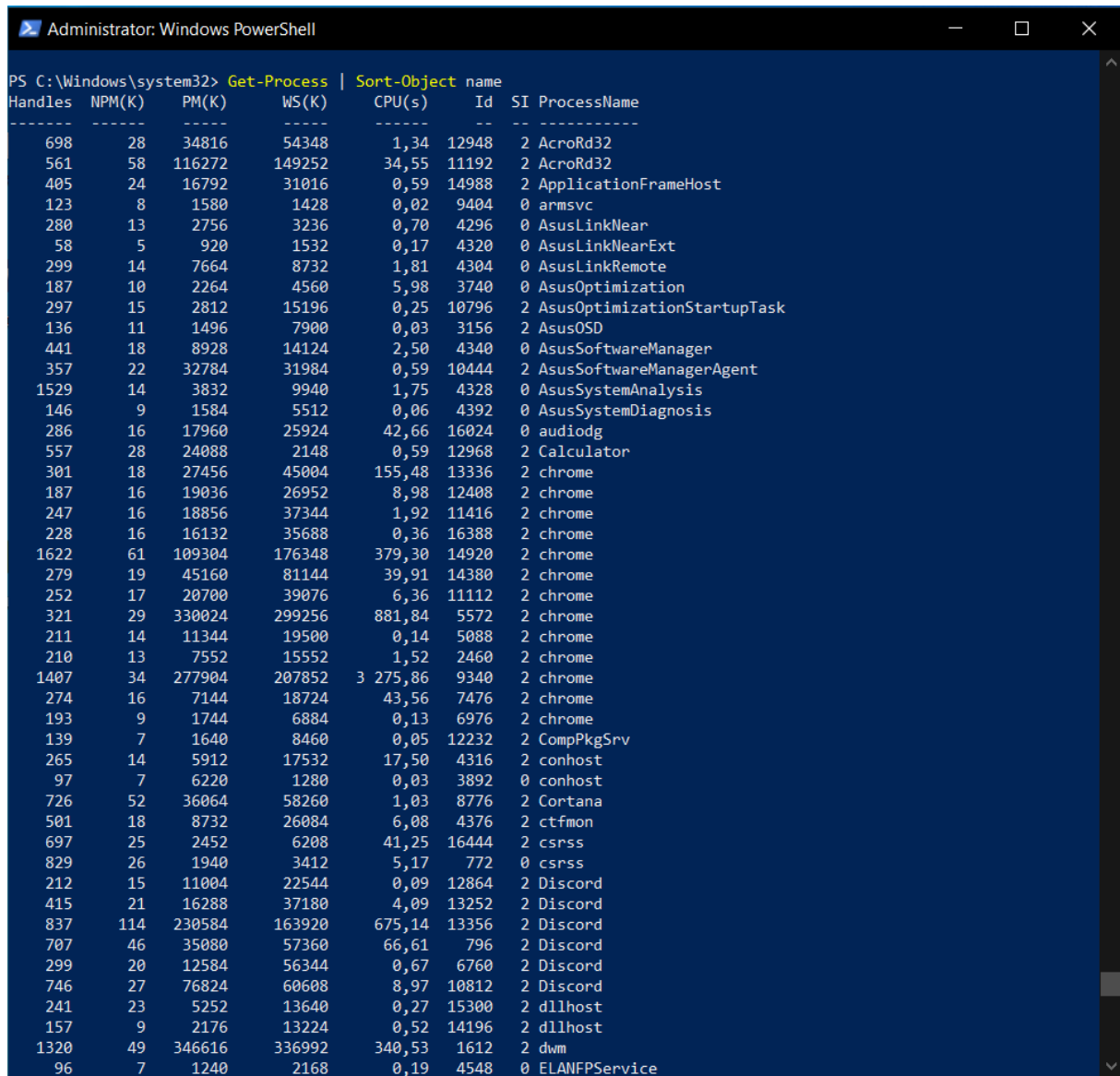
XboxNetApiSvc                               Stopped

PS C:\Windows\system32> Get-Service | ft name, status -AutoSize

Name                                           Status
-----
AarSvc_757c232                                Running
AdobeARMService                             Running
AJRouter                                     Stopped
ALG                                           Stopped
AppIDSvc                                     Stopped
Appinfo                                       Running
AppMgmt                                       Stopped
AppReadiness                                Stopped
AppVClient                                   Stopped
AppXSvc                                       Running
AssignedAccessManagerSvc                    Stopped
ASUSLinkNear                                 Running
ASUSLinkNearExt                             Running
ASUSLinkRemote                              Running
ASUSOptimization                            Running
ASUSSoftwareManager                         Running
ASUSSystemAnalysis                          Running
ASUSSystemDiagnosis                         Running
AudioEndpointBuilder                        Running
Audiosrv                                     Running
autotimesvc                                 Stopped
AxInstSV                                     Stopped
BcastDVRUserService_757c232                 Stopped
BDESVC                                       Stopped
BFE                                          Running
BITS                                        Stopped
BluetoothUserService_757c232                Running
BrokerInfrastructure                         Running
BTAGService                                 Running
BthAvctpSvc                                Running
bthserv                                     Running
camsvc                                       Running
CaptureService_757c232                       Stopped
cbdhsvc_757c232                             Running
CDPSvc                                       Running
CDPUserService_757c232                       Running
CertPropSvc                                Stopped
ClickToRunSvc                               Running
ClipSvc                                     Stopped
COMSysApp                                   Stopped
ConsentUxUserService_757c232                 Stopped
CoreMessagingRegistrar                      Running
cphs                                        Running
```

8.feladat:

a



Administrator: Windows PowerShell

```
PS C:\Windows\system32> Get-Process | Sort-Object CPU
```

Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName
698	28	34816	54348	1,34	12948	2	AcroRd32
561	58	116272	149252	34,55	11192	2	AcroRd32
405	24	16792	31016	0,59	14988	2	ApplicationFrameHost
123	8	1580	1428	0,02	9404	0	armsvc
280	13	2756	3236	0,70	4296	0	AsusLinkNear
58	5	920	1532	0,17	4320	0	AsusLinkNearExt
299	14	7664	8732	1,81	4304	0	AsusLinkRemote
187	10	2264	4560	5,98	3740	0	AsusOptimization
297	15	2812	15196	0,25	10796	2	AsusOptimizationStartupTask
136	11	1496	7900	0,03	3156	2	AsusOSD
441	18	8928	14124	2,50	4340	0	AsusSoftwareManager
357	22	32784	31984	0,59	10444	2	AsusSoftwareManagerAgent
1529	14	3832	9940	1,75	4328	0	AsusSystemAnalysis
146	9	1584	5512	0,06	4392	0	AsusSystemDiagnosis
286	16	17960	25924	42,66	16024	0	audiodg
557	28	24088	2148	0,59	12968	2	Calculator
301	18	27456	45004	155,48	13336	2	chrome
187	16	19036	26952	8,98	12408	2	chrome
247	16	18856	37344	1,92	11416	2	chrome
228	16	16132	35688	0,36	16388	2	chrome
1622	61	109304	176348	379,30	14920	2	chrome
279	19	45160	81144	39,91	14380	2	chrome
252	17	20700	39076	6,36	11112	2	chrome
321	29	330024	299256	881,84	5572	2	chrome
211	14	11344	19500	0,14	5088	2	chrome
210	13	7552	15552	1,52	2460	2	chrome
1407	34	277904	207852	3 275,86	9340	2	chrome
274	16	7144	18724	43,56	7476	2	chrome
193	9	1744	6884	0,13	6976	2	chrome
139	7	1640	8460	0,05	12232	2	CompPkgSrv
265	14	5912	17532	17,50	4316	2	conhost
97	7	6220	1280	0,03	3892	0	conhost
726	52	36064	58260	1,03	8776	2	Cortana
501	18	8732	26084	6,08	4376	2	ctfmon
697	25	2452	6208	41,25	16444	2	csrss
829	26	1940	3412	5,17	772	0	csrss
212	15	11004	22544	0,09	12864	2	Discord
415	21	16288	37180	4,09	13252	2	Discord
837	114	230584	163920	675,14	13356	2	Discord
707	46	35080	57360	66,61	796	2	Discord
299	20	12584	56344	0,67	6760	2	Discord
746	27	76824	60608	8,97	10812	2	Discord
241	23	5252	13640	0,27	15300	2	dllhost
157	9	2176	13224	0,52	14196	2	dllhost
1320	49	346616	336992	340,53	1612	2	dwm
96	7	1240	2168	0,19	4548	0	ELANFPService

b

```

Administrator: Windows PowerShell

PS C:\Windows\system32> Get-Process | Sort-Object name -Descending

```

Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName
626	41	26176	11728	0,56	11556	2	YourPhone
302	10	6444	3904	3,77	1136	0	WUDFHost
352	16	7852	11660	3,20	1268	0	WUDFHost
320	18	30624	37112	29,61	7800	0	WmiPrvSE
179	13	3152	10460	0,03	8576	0	WmiPrvSE
246	12	9848	15456	0,55	12076	0	WmiPrvSE
148	8	1764	2988	2,81	3836	0	wlanext
281	12	2544	10312	0,25	13564	2	winlogon
169	11	1616	3632	0,09	884	0	wininit
493	30	18396	1772	0,25	9584	2	Video.UI
128	10	2148	9064	0,17	13660	2	UserOOBEBroker
123	8	1424	7184	0,02	12560	0	unsecapp
548	22	12912	47736	1,75	6616	2	TextInputHost
334	20	11592	60952	0,36	7852	2	Teams
452	22	17140	43352	12,33	8616	2	Teams
462	127	263552	234656	97,13	6584	2	Teams
1178	52	120728	119568	33,89	6684	2	Teams
766	29	97228	73852	2,77	9984	2	Teams
1122	67	158652	120432	90,94	14792	2	Teams
297	59	78056	91696	5,42	15068	2	Teams
304	22	23516	74728	0,11	10200	2	Teams
332	27	32328	51396	0,55	12608	2	Teams
874	40	41588	39256	12,17	2852	0	taskhostw
309	35	8484	18416	0,94	10056	2	taskhostw
482	23	8028	30712	0,64	13368	2	SystemSettingsBroker
4625	0	240	17868	3 711,56	4	0	System
403	16	5016	8892	15,81	2544	0	svchost
666	27	10096	41752	5,98	2524	2	svchost
240	10	2424	4132	1,41	2564	0	svchost
227	12	2572	4608	0,36	2784	0	svchost
285	12	15788	21440	86,67	2576	0	svchost
408	12	3256	6004	27,02	2252	0	svchost
168	11	1996	7192	0,39	2140	0	svchost
122	8	1552	3072	0,08	2356	0	svchost
425	11	3108	7388	15,06	2476	0	svchost
227	14	2240	5696	1,48	2444	0	svchost
309	15	3796	5308	77,02	2876	0	svchost
565	15	4796	9320	7,38	3484	0	svchost
175	10	2076	4104	2,50	3240	0	svchost
159	9	1776	8180	0,86	3496	2	svchost
144	14	1860	2896	2,05	3604	0	svchost
111	7	1248	5888	0,02	3544	0	svchost
183	11	2160	2816	1,89	2948	0	svchost
240	17	3528	7376	275,97	2940	0	svchost

## 9.feladat:

```

Administrator: Windows PowerShell

707      46      35076      57636      66,95      796      2 Discord
840      115     230864     164444     679,05     13356     2 Discord
415      21      16288      37180      4,09      13252     2 Discord
212      15      11004      22544      0,09      12864     2 Discord
836      26      1940       3420       5,19       772       0 csrss
706      25      2452       6212       42,70     16444     2 csrss
505      18      9408       26736      6,59      4376      2 ctfmon
726      52      36064      58260      1,03      8776      2 Cortana
97        7       6220       1280       0,03      3892       0 conhost
263      14      5884      17528      18,38     4316      2 conhost
139       7       1640       8460       0,05     12232     2 CompPkgSrv
193       9       1744       6884       0,13      6976      2 chrome
277      16      7172      18736      43,56     7476      2 chrome
1410     34     277800     193048     3 275,98   9340      2 chrome
213      13      7584      15556      1,52      2460      2 chrome
211      14     11344     19500      0,14      5088      2 chrome
350      30     333472     269008     882,13    5572      2 chrome
252      17     20700      39076      6,36     11112     2 chrome
279      19     45160     66128      39,91    14380     2 chrome
1633     62     109352     175748     379,44    14920     2 chrome
228      15     16132     33724      0,36     16388     2 chrome
247      16     18856     37344      1,92     11416     2 chrome
187      16     19036     26928      8,98     12408     2 chrome
310      20     27544     44772     155,56    13336     2 chrome
557      28     24088      2148       0,59     12968     2 Calculator
536      18     59940     68528      49,61    16024     0 audiodg
146       9      1584      5512       0,06      4392     0 AsusSystemDiagnosis
1553     15     4116     10056      1,75      4328     0 AsusSystemAnalysis
357      22     32784     31976      0,59     10444     2 AsusSoftwareManagerAgent
441      18     8928     14124      2,50      4340     0 AsusSoftwareManager
136      11     1496      7900       0,03      3156     2 AsusOSD
297      15     2812     15196      0,25     10796     2 AsusOptimizationStartupTask
187      10     2264      4560       5,98      3740     0 AsusOptimization
299      14     7664      8732       1,81      4304     0 AsusLinkRemote
58        5        920      1532       0,17      4320     0 AsusLinkNearExt
280      13     2756      3236       0,70      4296     0 AsusLinkNear
123       8      1580      1428       0,02      9404     0 armsvc
405      24     16764     31004      0,59     14988     2 ApplicationFrameHost
561      58     116272     149256     35,34     11192     2 AcroRd32
698      28     34820     54352      1,34     12948     2 AcroRd32

PS C:\Windows\system32> Get-Service | Where-Object { $_.name -eq "w32time" }

Status   Name           DisplayName
-----
Stopped  W32Time        Windows Time

PS C:\Windows\system32>

```

## 10.feladat:

```

Administrator: Windows PowerShell

277      16      7172      18736      43,56      7476      2 chrome
1410     34     277800     193048      3 275,98     9340      2 chrome
213      13      7584      15556        1,52     2460      2 chrome
211      14     11344     19500        0,14     5088      2 chrome
350      30     333472     269008      882,13     5572      2 chrome
252      17     20700      39076        6,36     11112     2 chrome
279      19     45160      66128        39,91     14380     2 chrome
1633     62     109352     175748      379,44     14920     2 chrome
228      15     16132      33724        0,36     16388     2 chrome
247      16     18856      37344        1,92     11416     2 chrome
187      16     19036      26928        8,98     12408     2 chrome
310      20     27544      44772      155,56     13336     2 chrome
557      28     24088       2148        0,59     12968     2 Calculator
536      18     59940      68528      49,61     16024     0 audiodg
146       9      1584       5512        0,06     4392     0 AsusSystemDiagnosis
1553     15     4116      10056        1,75     4328     0 AsusSystemAnalysis
357      22     32784      31976        0,59     10444     2 AsusSoftwareManagerAgent
441      18     8928      14124        2,50     4340     0 AsusSoftwareManager
136      11     1496       7900        0,03     3156     2 AsusOSD
297      15     2812      15196        0,25     10796     2 AsusOptimizationStartupTask
187      10     2264       4560        5,98     3740     0 AsusOptimization
299      14     7664       8732        1,81     4304     0 AsusLinkRemote
58       5        920       1532        0,17     4320     0 AsusLinkNearExt
280      13     2756       3236        0,70     4296     0 AsusLinkNear
123       8     1580       1428        0,02     9404     0 armsvc
405      24     16764      31004        0,59     14988     2 ApplicationFrameHost
561      58     116272     149256      35,34     11192     2 AcroRd32
698      28     34820      54352        1,34     12948     2 AcroRd32

PS C:\Windows\system32> Get-Service | Where-Object { $_.name -eq "w32time" }

Status Name                DisplayName
-----
Stopped W32Time                Windows Time

PS C:\Windows\system32> Get-Service | Where-Object { $_.name -like "wi*" }

Status Name                DisplayName
-----
Stopped WiaRpc                Állókép-beviteli események
Running WinDefend        Microsoft Defender víruskereső szol...
Running WinHttpAutoProx... WinHTTP automatikus webproxy-kereső...
Running Winmgmt         Windows Management Instrumentation
Stopped WinRM            Rendszerfelügyeleti webszolgáltatások
Stopped wisvc           Windows Insider szolgáltatás

PS C:\Windows\system32>

```

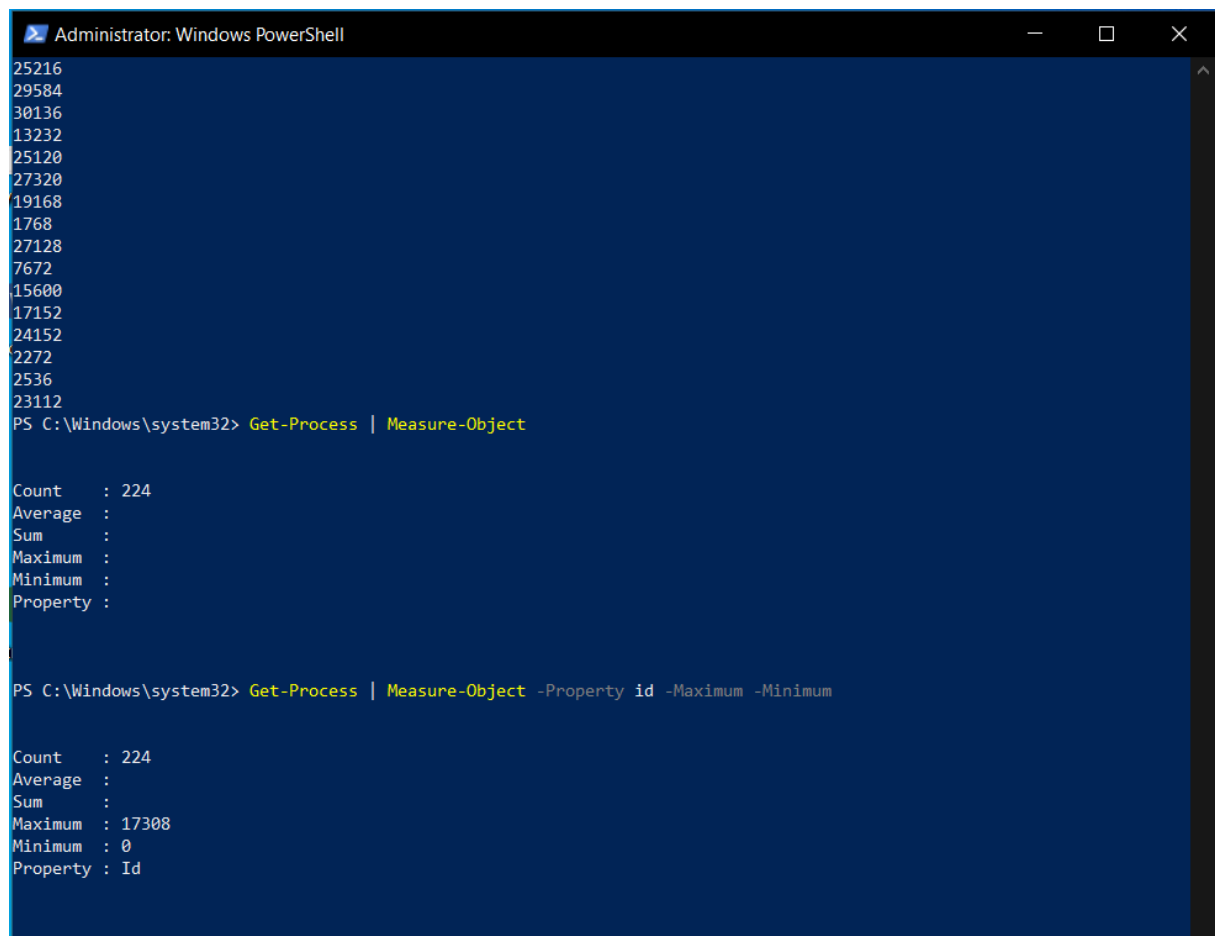
```
Administrator: Windows PowerShell

PS C:\Windows\system32> Get-Service | Group-Object status

Count Name Group
-----
123 Running {AarSvc_757c232, AdobeARMservice, Appinfo, AppXSvc...}
161 Stopped {AJRouter, ALG, AppIDSvc, AppMgmt...}

PS C:\Windows\system32> Get-Process | ForEach-Object { $_.id*2 }
22384
25896
29976
18808
8592
8640
8608
7480
21592
6312
8680
20888
8656
8784
32048
25936
4920
10176
11144
13952
14952
18680
22224
22832
24816
26672
28760
29840
32776
24464
7784
8632
17552
8752
1544
32888
1592
13520
21624
25728
```

11-12.feladat:



```
Administrator: Windows PowerShell
25216
29584
30136
13232
25120
27320
19168
1768
27128
7672
15600
17152
24152
2272
2536
23112
PS C:\Windows\system32> Get-Process | Measure-Object

Count      : 224
Average    :
Sum        :
Maximum    :
Minimum    :
Property   :

PS C:\Windows\system32> Get-Process | Measure-Object -Property id -Maximum -Minimum

Count      : 224
Average    :
Sum        :
Maximum    : 17308
Minimum    : 0
Property   : Id
```

13-14.feladat:

```
PS C:\Windows\system32> (Get-Service).count
284
PS C:\Windows\system32> $x = (Get-Service)
PS C:\Windows\system32> $x.count
284
PS C:\Windows\system32> $x = 5
PS C:\Windows\system32> $x | Get-Member

    TypeName: System.Int32

Name      MemberType Definition
-----
CompareTo Method      int CompareTo(System.Object value), int CompareTo(int value), int IComparable.CompareTo(Syst...
Equals    Method      bool Equals(System.Object obj), bool Equals(int obj), bool IEquatable[int].Equals(int other)
GetHashCode Method     int GetHashCode()
GetType   Method      type GetType()
GetTypeCode Method     System.TypeCode GetTypeCode(), System.TypeCode IConvertible.GetTypeCode()
ToBoolean Method     bool IConvertible.ToBoolean(System.IFormatProvider provider)
ToByte    Method     byte IConvertible.ToByte(System.IFormatProvider provider)
ToChar    Method     char IConvertible.ToChar(System.IFormatProvider provider)
ToDateTime Method     datetime IConvertible.ToDateTime(System.IFormatProvider provider)
ToDecimal Method     decimal IConvertible.ToDecimal(System.IFormatProvider provider)
ToDouble  Method     double IConvertible.ToDouble(System.IFormatProvider provider)
ToInt16   Method     int16 IConvertible.ToInt16(System.IFormatProvider provider)
ToInt32   Method     int IConvertible.ToInt32(System.IFormatProvider provider)
ToInt64   Method     long IConvertible.ToInt64(System.IFormatProvider provider)
ToSByte   Method     sbyte IConvertible.ToSByte(System.IFormatProvider provider)
ToSingle  Method     float IConvertible.ToSingle(System.IFormatProvider provider)
ToString  Method     string ToString(), string ToString(string format), string ToString(System.IFormatProvider pr...
ToType    Method     System.Object IConvertible.ToType(type conversionType, System.IFormatProvider provider)
ToUInt16  Method     uint16 IConvertible.ToUInt16(System.IFormatProvider provider)
ToUInt32  Method     uint32 IConvertible.ToUInt32(System.IFormatProvider provider)
ToUInt64  Method     uint64 IConvertible.ToUInt64(System.IFormatProvider provider)

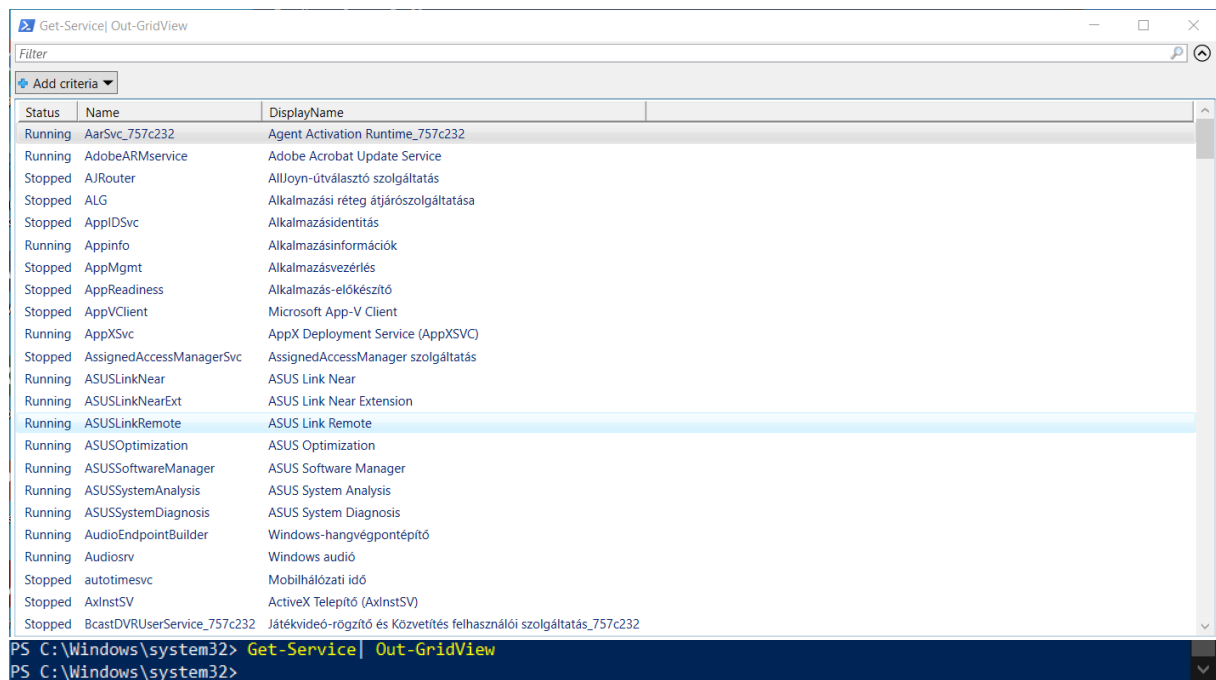
PS C:\Windows\system32>
```

15-16.feladat:

```
PS C:\Windows\system32> $szoveg = "Miskolc"
PS C:\Windows\system32> "$szoveg-on élek."
Miskolc-on élek.
PS C:\Windows\system32> '$szoveg-on élek.'
$szoveg-on élek.
PS C:\Windows\system32> $szoveg.Length
7
PS C:\Windows\system32> $szoveg.ToUpper()
MISKOLC
PS C:\Windows\system32> $szoveg.Replace("kolc", "ka")
Miska
PS C:\Windows\system32> $szoveg.Split("s")
Mi
kolc
```



## 17.feladat:

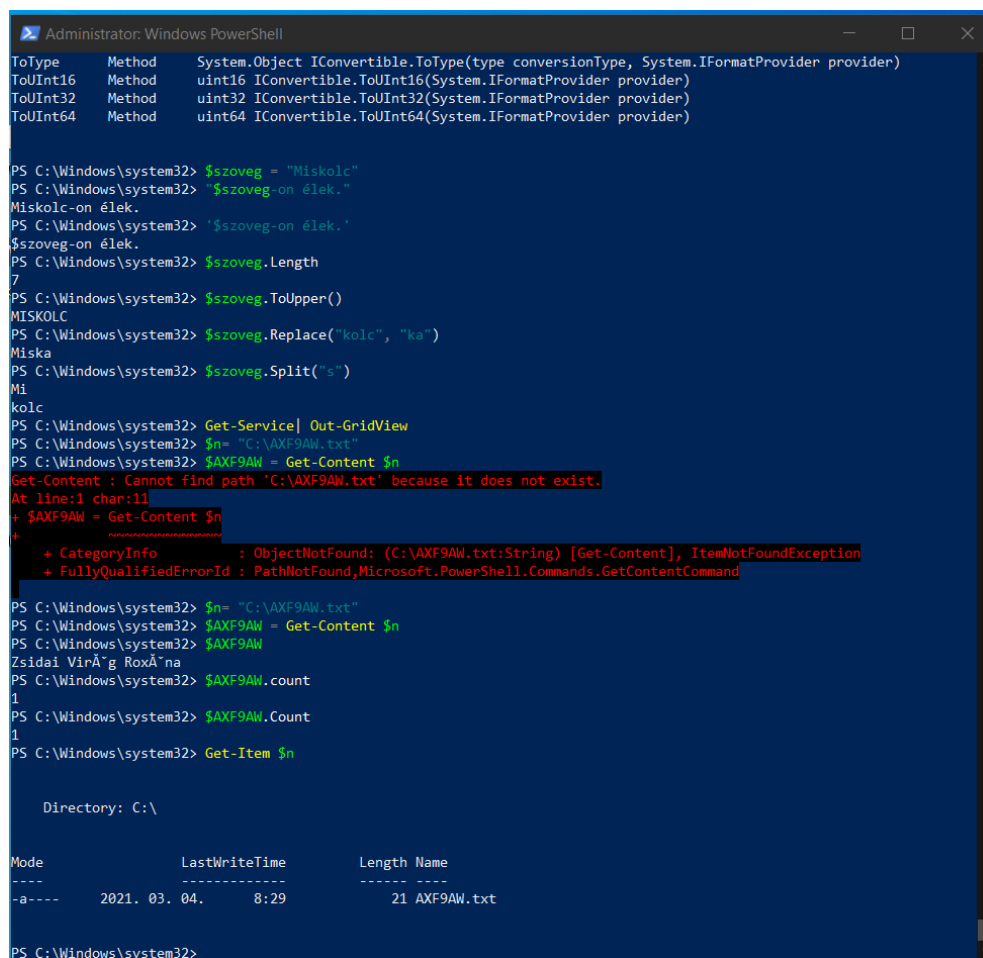


The screenshot shows a PowerShell window titled 'Get-Service Out-GridView'. It displays a table of services with columns: Status, Name, and DisplayName. The 'ASUSLinkRemote' service is highlighted in blue.

Status	Name	DisplayName
Running	AarSvc_757c232	Agent Activation Runtime_757c232
Running	AdobeARMSvc	Adobe Acrobat Update Service
Stopped	AJRouter	AllJoyn-útválasztó szolgáltatás
Stopped	ALG	Alkalmazási réteg átjárószolgáltatása
Stopped	ApplDSvc	Alkalmazásidentitás
Running	Appinfo	Alkalmazásinformációk
Stopped	AppMgmt	Alkalmazásvezérlés
Stopped	AppReadiness	Alkalmazás-előkészítő
Stopped	AppVClient	Microsoft App-V Client
Running	AppXSvc	AppX Deployment Service (AppXSVC)
Stopped	AssignedAccessManagerSvc	AssignedAccessManager szolgáltatás
Running	ASUSLinkNear	ASUS Link Near
Running	ASUSLinkNearExt	ASUS Link Near Extension
Running	ASUSLinkRemote	ASUS Link Remote
Running	ASUSOptimization	ASUS Optimization
Running	ASUSSoftwareManager	ASUS Software Manager
Running	ASUSSystemAnalysis	ASUS System Analysis
Running	ASUSSystemDiagnosis	ASUS System Diagnosis
Running	AudioEndpointBuilder	Windows-hangvégpontépítő
Running	Audiosrv	Windows audio
Stopped	autotimesvc	Mobilhálózati idő
Stopped	AxInstSV	ActiveX Telepítő (AxInstSV)
Stopped	BcastDVRUserService_757c232	Játékvideó-rögzítő és Közvetítés felhasználói szolgáltatás_757c232

PS C:\Windows\system32> Get-Service Out-GridView  
PS C:\Windows\system32>

## 18. feladat:



The screenshot shows a Windows PowerShell window with the following commands and outputs:

```
PS C:\Windows\system32> $szoveg = "Miskolc"
PS C:\Windows\system32> "$szoveg-on élek."
Miskolc-on élek.
PS C:\Windows\system32> '$szoveg-on élek.'
$szoveg-on élek.
PS C:\Windows\system32> $szoveg.Length
7
PS C:\Windows\system32> $szoveg.ToUpper()
MISKOLC
PS C:\Windows\system32> $szoveg.Replace("kolc", "ka")
Miska
PS C:\Windows\system32> $szoveg.Split("s")
Mi
kolc
PS C:\Windows\system32> Get-Service Out-GridView
PS C:\Windows\system32> $n = "C:\AXF9AW.txt"
PS C:\Windows\system32> $AXF9AW = Get-Content $n
Get-Content : Cannot find path 'C:\AXF9AW.txt' because it does not exist.
At line:1 char:11
+ $AXF9AW = Get-Content $n
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (C:\AXF9AW.txt:String) [Get-Content], ItemNotFoundException
+ FullyQualifiedErrorId : PathNotFound,Microsoft.PowerShell.Commands.GetContentCommand

PS C:\Windows\system32> $n = "C:\AXF9AW.txt"
PS C:\Windows\system32> $AXF9AW = Get-Content $n
PS C:\Windows\system32> $AXF9AW
Zsidai VirÁg RoxÁna
PS C:\Windows\system32> $AXF9AW.count
1
PS C:\Windows\system32> $AXF9AW.Count
1
PS C:\Windows\system32> Get-Item $n

Directory: C:\

Mode                LastWriteTime         Length Name
----                -
-a----         2021. 03. 04.      8:29             21 AXF9AW.txt

PS C:\Windows\system32>
```