# 4. Gyakorlat

#### 1. Feladat:

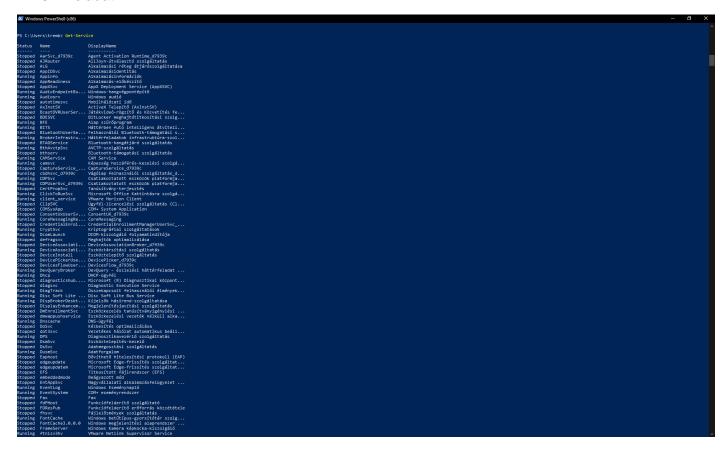
```
PS C:\Users\tremb> $PSVersionTable
Name
PSVersion
                                  5.1.18362.1171
PSEdition
                                  Desktop
                                  {1.0, 2.0, 3.0, 4.0...}
10.0.18362.1171
SCompatibleVersions
BuildVersion
                                  4.0.30319.42000
CLRVersion
WSManStackVersion
                                  3.0
PSRemotingProtocolVersion
                                  2.3
SerializationVersion
                                  1.1.0.1
```

A PowerShell verzióját kérdezhetjük le a \$PSVersionTable CMDlettel.

#### 2. Feladat:

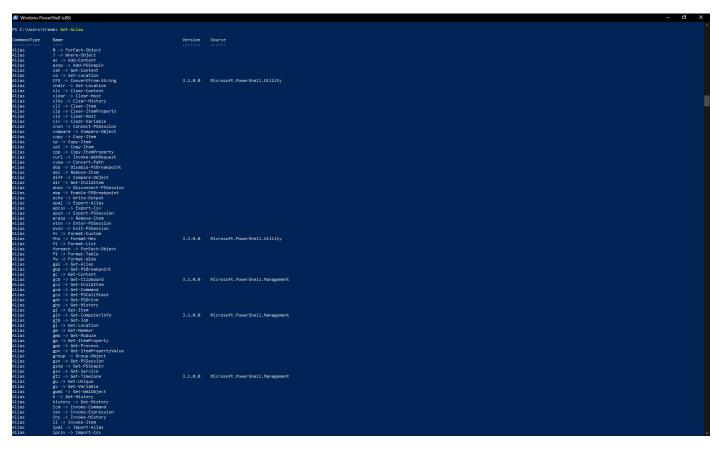
```
Windows PowerShell (x86)
                                                                                                                      ×
PS C:\Users\tremb> Get-Service | Get-Member_
   TypeName: System.ServiceProcess.ServiceController
                                          Definition
Name
                           MemberType
Name
                           AliasProperty Name = ServiceName
RequiredServices
                           AliasProperty RequiredServices = ServicesDependedOn
                                          System.EventHandler Disposed(System.Object, System.EventArgs)
Disposed
                           Event
Close
                                          void Close()
void Continue()
                           Method
Continue
                           Method
CreateObjRef
                                          System.Runtime.Remoting.ObjRef CreateObjRef(type requestedType)
                           Method
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()
                                          void Pause()
Pause
                           Method
Refresh
                                          void Refresh()
                                          void Start(), void Start(string[] args)
Start
                           Method
Stop
                           Method
                                          void Stop()
WaitForStatus
                           Method
                                          void WaitForStatus(System.ServiceProcess.ServiceControllerStatus desiredStat...
CanPauseAndContinue
                           Property
                                          bool CanPauseAndContinue {get;}
CanShutdown
                           Property
                                          bool CanShutdown {get;}
                           Property
                                          bool CanStop {get;}
CanStop
Container
                                          System.ComponentModel.IContainer Container {get;}
                           Property
DependentServices
                           Property
                                          System.ServiceProcess.ServiceController[] DependentServices {get;}
                                          string DisplayName {get;set;}
string MachineName {get;set;}
DisplayName
                           Property
MachineName
                           Property
                                          System.Runtime.InteropServices.SafeHandle ServiceHandle {get;}
ServiceHandle
                           Property
                                          string ServiceName {get;set;}
System.ServiceProcess.ServiceController[] ServicesDependedOn {get;}
ServiceName
                           Property
ServicesDependedOn
                           Property
                                          System.ServiceProcess.ServiceType ServiceType {get;}
ServiceType
                           Property
                                          System.ComponentModel.ISite Site {get;set;}
Site
                           Property
StartType
                           Property
                                          System.ServiceProcess.ServiceStartMode StartType {get;}
Status
                           Property
                                          System.ServiceProcess.ServiceControllerStatus Status {get;}
ToString
                           ScriptMethod System.Object ToString();
PS C:\Users\tremb> _
```

Get-Service | Get-Member CMDlettel megtudhatjuk, hogy milyen tagokat ismer a Pshell.



Szolgáltatások a PShellben.

```
Windows PowerShell (x86)
                                                                                                                                                                                                                                                  ×
        Directory: C:\Users\tremb
                                        LastWriteTime
 1ode
                                                                                     Length Name
                                                        15:27
14:11
14:02
                    2021. 03. 03.
                    2021. 02. 10.
2021. 03. 03.
                                                                                                   .eclipse
.p2
.thumbnails
                   2021. 01. 07.
2021. 02. 10.
2021. 02. 10.
2021. 03. 04.
2021. 02. 20.
2021. 01. 04.
                                                        16:07
14:11
8:07
9:03
                                                                                                   .tooling
.VirtualBox
3D Objects
ansel
                                                         22:21
                    2021. 01. 20.
2021. 02. 20.
2021. 02. 01.
                                                                                                   Cisco Packet Tracer 7.3.1
Contacts
                                                         20:02
                                                        9:03
14:33
21:47
8:09
14:09
                                                                                                   Desktop
                   2021. 02. 01.
2021. 01. 04.
2021. 03. 04.
2021. 02. 10.
2021. 03. 03.
2021. 02. 20.
                                                                                                   Documents
Downloads
                                                                                                   eclipse
                                                         14:10
9:03
                                                                                                   eclipse-workspace
Favorites
 1----
                                                                                                   Links
Music
OneDrive
                    2021. 02. 20.
2021. 02. 20.
2021. 03. 03.
                                                          9:03
                                                         9:03
18:55
 d-r---
d-r---
                    2021. 02. 20.
2021. 02. 20.
                                                          9:03
9:03
                                                                                                   Saved Games
Searches
                    2021. 03. 04.
2021. 02. 18.
2021. 03. 03.
                                                          7:38
9:38
                                                                                                    Videos
                                                                                         VirtualBox VMs
1252 .bash_history
 1----
                                                         16:01
16:37
                   2021. 03. 03.
2021. 02. 18.
2021. 02. 01.
2021. 01. 04.
2021. 02. 25.
                                                                               56 .gitconfig
176 .packettracer
127450288 GeForce_Experience_v3.20.5.70.exe
                                                         13:06
                                                         22:20
9:20
                                                                                               0 logonsessions
PS C:\Users\tremb>
```



Aliasok.

## 6. Feladat:



Jelenleg futó processzek.

```
## Commercial (1984) | 1984, 19810

***Commercial (1984) | 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1984, 1
```

b)

c)

```
### COUNTY WINDS ON FASTACIA | The case | Marcia | Marcia
```

# -AutoSize

```
| Mary | Control | Control
```

```
### Colors | Colors |
```

```
PS C:\Users\tremb> gsv | Where-Object { $_.name -eq "w32time" }

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

```
PS C:\Users\tremb> gsv | Where-Object { $_.name -like "wi*
Status
                                        DisplayName
             Name
            WiaRpc
                                        Állókép-beviteli események
Stopped
            Windows Defender víruskereső szolgá...
WinHttpAutoProx... WinHTTP automatikus webproxy-kereső...
Winmgmt Windows Management Instrumentation
Running
Running
Running
                                       Rendszerfelügyeleti webszolgáltatások
Windows Insider szolgáltatás
            WinRM
Stopped
            wisvc
Stopped
```

```
| Mary | Section | Section
```

Megj.: Átírtam a processz aliast proce-re, a gyorsabb gépelés érdekébe.

## 11. Feladat:

```
PS C:\Users\tremb> proce | Measure-Object

Count : 219
Average :
Sum :
Maximum :
Minimum :
Property :
```

## 12. Feladat:

```
PS C:\Users\tremb> proce | Measure-Object -Property id -Maximum -Minimum -Avegage -Sum

Count : 218
Average : 8880,18348623853
Sum : 1935880
Maximum : 22180
Minimum : 0
Property : Id
```

## 13. Feladat:

```
PS C:\Users\tremb> (Get-Service).count
267

b)

PS C:\Users\tremb>
PS C:\Users\tremb> $x = (gsv)
PS C:\Users\tremb> $x.count_
267
```

```
C:\Users\tremb>
PS C:\Users\tremb> $x | Get-Member
   TypeName: System.Int32
Name
               MemberType Definition
                             int CompareTo(System.Object value), int CompareTo(int value), int IComparable.CompareTo(Syste...
CompareTo
               Method
quals
                            bool Equals(System.Object obj), bool Equals(int obj), bool IEquatable[int].Equals(int other)
GetHashCode Method
                             int GetHashCode()
GetType
               Method
                             type GetType()
                            System.TypeCode GetTypeCode(), System.TypeCode IConvertible.GetTypeCode() bool IConvertible.ToBoolean(System.IFormatProvider provider)
GetTypeCode Method
ToBoolean
              Method
                            byte IConvertible.ToByte(System.IFormatProvider provider)
ToByte
               Method
                            char IConvertible.ToChar(System.IFormatProvider provider)
datetime IConvertible.ToDateTime(System.IFormatProvider provider)
ToChar
               Method
ToDateTime
              Method
                            decimal IConvertible.ToDecimal(System.IFormatProvider provider)
double IConvertible.ToDouble(System.IFormatProvider provider)
ToDecimal
               Method
ToDouble
               Method
                             int16 IConvertible.ToInt16(System.IFormatProvider provider)
ToInt16
               Method
                            int IConvertible.ToInt32(System.IFormatProvider provider)
long IConvertible.ToInt64(System.IFormatProvider provider)
ToInt32
               Method
ToInt64
               Method
ToSByte
               Method
                             sbyte IConvertible.ToSByte(System.IFormatProvider provider)
                             float IConvertible.ToSingle(System.IFormatProvider provider)
ToSingle
               Method
                             string ToString(), string ToString(string format), string ToString(System.IFormatProvider pro...
System.Object IConvertible.ToType(type conversionType, System.IFormatProvider provider)
ToString
               Method
ToType
               Method
ToUInt16
               Method
                             uint16 IConvertible.ToUInt16(System.IFormatProvider provider)
ToUInt32
               Method
                             uint32 IConvertible.ToUInt32(System.IFormatProvider provider)
oUInt64
               Method
                             uint64 IConvertible.ToUInt64(System.IFormatProvider provider)
```

#### Tömbök:

```
PS C:\Users\tremb> $tomb= 1...10
PS C:\Users\tremb> $tomb= proce_
PS C:\Users\tremb> $tomb= 1...10_
PS C:\Users\tremb> $tomb += 52_
```

#### 15. Feladat:

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

PS C:\Users\tremb> "$szoveg elek"

Miskolc elek

PS C:\Users\tremb> "$szoveg-on elek"

Miskolc-on elek

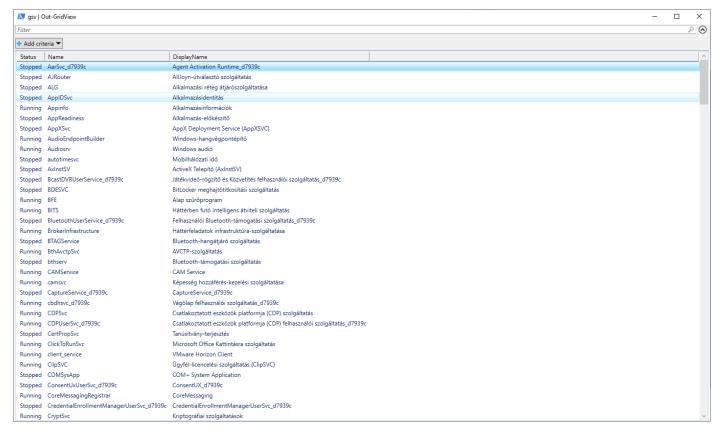
PS C:\Users\tremb> '$szoveg-on elek'

$szoveg-on elek

PS C:\Users\tremb>
```

#### 16. Feladat:

```
PS C:\Users\tremb> $szoveg.Length
7
PS C:\Users\tremb> $szoveg.ToUpper()
MISKOLC
PS C:\Users\tremb> $szoveg.Replace("kolc", "ka")
Miska
PS C:\Users\tremb> $szoveg.Split("s")
Mi
kolc
PS C:\Users\tremb>
```



Megj.: A D:\ meghajtóra hoztam létre a .txt file-t, mivel mindent azon tárolok, a C:\-n csak a Win és a driverek vannak.