

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

PS C:\Users\Felhasznalo>
PS C:\Users\Felhasznalo> $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:\Users\Felhasznalo>
```

A powershell pontos verziójáról szóló adatokat mutattja meg.

```
Windows PowerShell
BuildVersion      10.0.19041.610
CLRVersion        4.0.30319.42000
WSTManStackVersion 3.0
PSRemotingProtocolVersion 2.3
SerializationVersion 1.1.0.1

PS C:\Users\Felhasznalo> 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:\Users\Felhasznalo>
```

Megmutattja az objektumok neveit, típusait és definícióit.

```
Windows PowerShell
PS C:\Users\Felhasznalo> Get-Service

Status Name DisplayName
-----
Stopped AarSvc_1831a4ec Agent Activation Runtime_1831a4ec
Running AdobeARMService Adobe Acrobat Update Service
Stopped AJRouter AllJoyn Router Service
Stopped ALG Application Layer Gateway Service
Stopped AppIDSvc Application Identity
Running Appinfo Application Information
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... Játékvideó-rögzítő és Közvetítés fe...
Stopped BDESVC BitLocker Drive Encryption Service
Stopped BESService BattlEye Service
Running BFE Base Filtering Engine
Running BITS Background Intelligent Transfer Ser...
Stopped BluetoothUserSe... Felhasználói Bluetooth-támogatási s...
Running BrokerInfrastru... Background Tasks Infrastructure Ser...
Stopped BTAGService Bluetooth Audio Gateway Service
Running BthAvctpSvc AVCTP service
Running bthserv Bluetooth Support Service
Stopped camsvc Capability Access Manager Service
Stopped CaptureService_... CaptureService_1831a4ec
Running cbdhsvc_1831a4ec Vágólap felhasználói szolgáltatás_1...
Running CDPsvc Connected Devices Platform Service
Running CDPUserSvc_1831... Csatlakoztatott eszközök platformja...
Stopped CertPropSvc Certificate Propagation
Running client_service VMware Horizon Client
Stopped ClipSVC Client License Service (ClipSVC)
Stopped COMSysApp COM+ System Application
Stopped ConsentUxUserSv... ConsentUX_1831a4ec
Running CoreMessagingRe... CoreMessaging
Stopped CredentialEnrol... CredentialEnrollmentManagerUserSvc_...
Running CryptSvc Cryptographic Services
Stopped CscService Offline Files
Running DcomLaunch DCOM Server Process Launcher
Stopped defragsvc Optimise drives
Stopped DeviceAssociati... DeviceAssociationBroker_1831a4ec
Running DeviceAssociati... Device Association Service
Stopped DeviceInstall Device Install Service
Stopped DevicePickerUse... DevicePicker_1831a4ec
```

A Windows szolgáltatásait mutattja meg.

```
Windows PowerShell

Running WpnUserService_... A Windows leküldéses értesítései k...
Running wscsvc Security Center
Running WSearch Windows Search
Running wuauclt Windows Update
Stopped WwanSvc WWAN AutoConfig
Stopped XblAuthManager Xbox Live Auth Manager
Stopped XblGameSave Xbox Live Game Save
Stopped XboxGipSvc Xbox Accessory Management Service
Stopped XboxNetApiSvc Xbox Live Networking Service
Stopped zkscvc Zakynthos Service

PS C:\Users\Felhasznalo> Get-ChildItem

Directory: C:\Users\Felhasznalo

Mode                LastWriteTime         Length Name
----                -
d-----         18/04/2020         11:56      .cache
d-----         11/02/2021          08:22      .eclipse
d-----         19/09/2019         18:38      .Origin
d-----         04/03/2021          08:12      .p2
d-----         19/09/2019         18:38      .QtWebEngineProcess
d-----         11/02/2021          08:22      .tooling
d-----         08/03/2021         18:06      .VirtualBox
d-r--         13/11/2020         18:24      3D Objects
d-----         23/06/2019         20:58      anse1
d-----         06/05/2020         20:49      Apple
d-r--         13/11/2020         18:24      Contacts
d-r--         07/03/2021         15:08      Desktop
d-r--         27/02/2021          00:45      Documents
d-r--         05/03/2021          01:51      Downloads
d-----         11/02/2021          08:18      eclipse
d-----         04/03/2021          08:17      eclipse-workspace
d-r--         13/11/2020         18:24      Favorites
d-r--         13/11/2020         18:24      Links
d-r--         13/11/2020         18:24      Music
d-r--         27/02/2021          02:16      OneDrive
d-r--         01/01/2021         19:55      Pictures
d-r--         13/11/2020         18:24      Saved Games
d-r--         13/11/2020         18:24      Searches
d-r--         08/03/2021          07:52      Videos
d-----         01/03/2021         17:34      VirtualBox VMs
-a-----         01/03/2021         16:51          5 .bash_history
-a-----         23/02/2021         14:35        186 .gitconfig

PS C:\Users\Felhasznalo>
```

A meghajtón lévő könyvtárakat mutattja meg.

```
Windows PowerShell

583      14      5916      16856      7332      0 svchost
529      23      9504      34256      7680      9 svchost
209      9       1864      3100       7732      0 svchost
164      9       1656      7844       7760      0 svchost
216      13      6260      5096       7864      0 svchost
415      21      5596      11428      8064      0 svchost
214      11      2092      3872       8132      0 svchost
177      11      2128      4140       8404      0 svchost
432      18      10072     25744      8808      9 svchost
181      254      3068      2980      10028      0 svchost
213      11      2852      5080      10356      0 svchost
526      15      7004      6492      10492      0 svchost
216      13      2644      10852     10832      0 svchost
270      12      2512      5396      10968      0 svchost
133      8       1608      7156      11028      9 svchost
119      7       2764      8712      11036      0 svchost
189      14      6728      2628      12436      0 svchost
140      9       1832      9816      15580      0 svchost
448      25      5352      19584     15820      9 svchost
304      15      3760      21760     16456      9 svchost
111      7       1232      5796      16728      0 svchost
5486     0       248       15976      4          0 System
862      42      73032     2540       17304      9 SystemSettings
313      32      8244      17640     10580      9 taskhostw
527      465     19348     9172       5028      0 TeamViewer_Service
602      26      62424     48008      15056      9 TextInputHost
122      9       2132      8740       3504      9 UserOOBEBroker
185      10      2140      9976       9092      0 VBoxSDS
959      18      7868      20076      15140      9 VBoxSVC
764      41      69444     13596      13420      9 Video.UI
454      23      70388     58924      10212      9 VirtualBox
69       4       1936      6888       8476      9 VirtualBoxVM
1499     223     249636     249720     15392      9 VirtualBoxVM
71       4       1956      4704       17224      9 VirtualBoxVM
225      14      3152      3628       4548      0 vmware-usbarbitrator64
245      12      4280      3408       4724      0 vmwsprrdpwks
182      11      1748      2700       872       0 wininit
280      14      3188      16728      9836      9 winlogon
251      11      1924      2456       1064      0 WUDFHost
801      49      75720     60032      3220      9 YourPhone

PS C:\Users\Felhasznalo> Get-Alias processz

CommandType      Name
-----
Alias             processz -> Get-Process

PS C:\Users\Felhasznalo>
```

A parancsok rövidített neveit mutattja meg.

```
Windows PowerShell
PS C:\Users\Felhasznalo> Get-Service | ft name, status

Name                                     Status
----                                     -
AarSvc_1831a4ec                         Stopped
AdobeARMservice                         Running
AJRouter                               Stopped
ALG                                     Stopped
AppIDSvc                               Stopped
Appinfo                                 Running
AppMgmt                                Stopped
AppReadiness                           Stopped
AppVClient                              Stopped
AppXSvc                                 Running
AssignedAccessManagerSvc                Stopped
AudioEndpointBuilder                    Running
Audiosrv                                Running
Autotimesvc                             Stopped
AxInstSV                               Stopped
BcastDVRUserService_1831a4ec            Stopped
BDESVC                                  Stopped
BEService                               Stopped
BFE                                     Running
BITS                                    Running
BluetoothUserService_1831a4ec           Stopped
BrokerInfrastructure                     Running
BTAGService                             Stopped
BthAvctpSvc                             Running
bthserv                                 Running
camsvc                                  Running
CaptureService_1831a4ec                 Stopped
cbdhsvc_1831a4ec                        Running
CDPSvc                                  Running
CDPUserService_1831a4ec                  Running
CertPropSvc                             Stopped
Client_service                           Running
ClipSvc                                 Running
COMSysApp                               Stopped
ConsentUxUserService_1831a4ec           Stopped
CoreMessagingRegistrar                  Running
CredentialEnrollmentManagerUserService_1831a4ec Stopped
CryptSvc                                 Running
CscService                              Stopped
DcomLaunch                              Running
defragsvc                               Stopped
DeviceAssociationBrokerSvc_1831a4ec      Stopped
DeviceAssociationService                 Running
DeviceInstall                           Stopped
DevicePickerUserService_1831a4ec         Stopped
```

A meghajtón lévő szolgáltatásokat mutattja meg és azt hogy ezek futnak-e.

```
Windows PowerShell
PS C:\Users\Felhasznalo> Get-Process | Sort-Object name
```

Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName
654	76	158344	84040	31.92	14680	9	AcroRd32
609	28	34988	25796	0.50	13184	9	AcroRd32
361	19	6408	13284	0.03	13320	9	AdobeCollabSync
272	14	3744	11388	0.05	7780	9	AdobeCollabSync
476	27	31312	26456	0.17	14716	9	ApplicationFrameHost
123	8	1596	1228		4460	0	armsvc
234	17	8568	12896	200.98	14472	0	audiodg
595	31	69984	2456	0.52	172	9	Calculator
267	20	47444	64728	0.75	10268	9	chrome
460	29	112168	151900	4.41	10948	9	chrome
264	20	45176	71868	2.16	11408	9	chrome
279	19	55052	93100	3.69	9172	9	chrome
223	15	21984	39264	0.28	9620	9	chrome
222	13	9536	16960	0.56	9908	9	chrome
258	19	36732	43232	1.02	13332	9	chrome
331	26	71976	98832	7.28	13972	9	chrome
222	15	15188	29336	0.16	15560	9	chrome
232	17	112708	133532	9.11	16848	9	chrome
440	30	100720	85484	4.52	13384	9	chrome
249	17	31988	53788	1.52	13520	9	chrome
252	19	33836	41448	1.17	13748	9	chrome
269	21	47112	52336	2.25	2700	9	chrome
328	29	163104	140336	15.25	2748	9	chrome
229	17	27644	50016	0.25	2824	9	chrome
277	16	6960	18496	0.34	788	9	chrome
237	19	40316	62704	0.36	1300	9	chrome
284	9	1708	7156	0.05	2080	9	chrome
2387	79	348212	347636	116.56	5964	9	chrome
232	17	88172	108868	8.20	7280	9	chrome
746	61	276620	115484	58.91	7768	9	chrome
210	14	11936	24268	0.05	8600	9	chrome
228	17	28788	51344	0.19	6024	9	chrome
378	26	65188	91024	12.83	6248	9	chrome
320	20	40464	53364	13.00	6904	9	chrome
141	7	1844	8740	0.13	9004	9	CompPkgSrv
268	13	4244	16768	4.27	5844	9	conhost
100	7	6316	404	0.09	2924	9	conhost
812	32	3184	6316		13856	9	csrss
758	24	2076	2000		784	0	csrss
509	18	13256	23140	6.03	12772	9	ctfmon
394	17	7732	11064		3172	0	dasHost
220	12	3040	3116		10828	0	DiscSoftBusServiceLite
259	29	7408	16100	0.19	16316	9	dllhost
152	9	2144	13388	0.22	12400	9	dllhost
1350	59	124692	64172		12200	9	dwm

Az objektumokat mutatja meg ABC-sorrendben.

```
Windows PowerShell
Stopped WinRM Windows Remote Management (WS-Manag...
Stopped wisvc Windows Insider Service

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

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

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

Status Name DisplayName
-----
Stopped WiaRpc Still Image Acquisition Events
Running WinDefend Microsoft Defender Antivirus Service
Running WinHttpAutoProx... WinHTTP Web Proxy Auto-Discovery Se...
Running Winmgmt Windows Management Instrumentation
Stopped WinRM Windows Remote Management (WS-Manag...
Stopped wisvc Windows Insider Service

PS C:\Users\Felhasznalo>
```

Különböző lekérdezésekre alkalmas.



```
Windows PowerShell
Running Winmgmt      Windows Management Instrumentation
Stopped WinRM        Windows Remote Management (WS-Manag...
Stopped wisvc        Windows Insider Service

PS C:\Users\Felhasznalo> Get-Service | Group-Object status

Count Name          Group
-----
168 Stopped          {AarSvc_1831a4ec, AJRouter, ALG, AppIDSvc...}
115 Running          {AdobeARMservice, Appinfo, AudioEndpointBuilder, Audiosrv...}

PS C:\Users\Felhasznalo> Get-Process | ForEach-Object { $_.id*2 }
26368
29360
15560
26640
29432
3920
28944
344
1576
2600
4160
5400
5496
5648
11928
12048
12496
13808
14560
15536
17200
18344
19240
19816
20536
21896
22816
26664
26768
27040
27496
27944
31120
33696
18008
5848
```

Státusz alapján csoportosítja az objektumokat.

A másodikat nem tudom értelmezni hogy mit tesz pontosan.

```
Windows PowerShell
PS C:\Users\Felhasznalo> Get-Process | Measure-Object -Property id -Maximum -Minimum -Average -Sum

Count      : 217
Average    : 7128.9400921659
Sum        : 1546980
Maximum    : 17380
Minimum    : 0
Property   : Id

PS C:\Users\Felhasznalo> (Get-Service).count
283
PS C:\Users\Felhasznalo> $x = (Get-Service)
PS C:\Users\Felhasznalo> $x = (Get-Service)
PS C:\Users\Felhasznalo> $x.count
283
PS C:\Users\Felhasznalo> $x = 5
PS C:\Users\Felhasznalo> $x | Get-Member

    TypeName: System.Int32

Name      MemberType Definition
-----
CompareTo Method      int CompareTo(System.Object value), int CompareTo(int value), int IComparable.CompareTo(Syste...
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 pro...
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:\Users\Felhasznalo>
```

Különböző összegzéseket mutat meg az objektumokról.

Megszámoja az objektumokat.

```
Windows PowerShell
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PS C:\Users\Felhasznalo> $x = 5
PS C:\Users\Felhasznalo> $x | Get-Member

    TypeName: System.Int32

Name      MemberType Definition
-----
CompareTo Method    int CompareTo(System.Object value), int CompareTo(int value), int IComparable.CompareTo(Syste...
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 pro...
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:\Users\Felhasznalo> $tomb = @()
PS C:\Users\Felhasznalo> $tomb = 7,2,3
PS C:\Users\Felhasznalo> $tomb += 324
PS C:\Users\Felhasznalo> $szoveg = "Miskolc"
PS C:\Users\Felhasznalo> "$szoveg-on élek."
Miskolc-on élek.
PS C:\Users\Felhasznalo> '$szoveg-on élek.'
$szoveg-on élek.
PS C:\Users\Felhasznalo> $szoveg.Length
7
PS C:\Users\Felhasznalo> $szoveg.ToUpper()
MISKOLC
PS C:\Users\Felhasznalo> $szoveg.Replace("kolc", "ka")
Miska
PS C:\Users\Felhasznalo> $szoveg.Split("s")
Mi
kolc
PS C:\Users\Felhasznalo>
```

Megjegyezz szövegeket, amelyeket utána kiíráthatunk és módosíthatunk rajta.

```
Windows PowerShell

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:\Users\Felhasznalo> $tomb= @()
PS C:\Users\Felhasznalo> $tomb= 7,2,3
PS C:\Users\Felhasznalo> $tomb += 324
PS C:\Users\Felhasznalo> $szoveg = "Miskolc"
PS C:\Users\Felhasznalo> "$szoveg-on élek."
Miskolc-on élek.
PS C:\Users\Felhasznalo> '$szoveg-on élek.'
$szoveg-on élek.
PS C:\Users\Felhasznalo> $szoveg.Length
7
PS C:\Users\Felhasznalo> $szoveg.ToUpper()
MISKOLC
PS C:\Users\Felhasznalo> $szoveg.Replace("kolc", "ka")
Miska
PS C:\Users\Felhasznalo> $szoveg.Split("s")
Mi
kolc
PS C:\Users\Felhasznalo> $n= "C:\neptunkod.txt"
PS C:\Users\Felhasznalo> $neptunkod = Get-Content $n
Get-Content : Cannot find path 'C:\neptunkod.txt' because it does not exist.
At line:1 char:14
+ $neptunkod = Get-Content $n
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (C:\neptunkod.txt:String) [Get-Content], ItemNotFoundException
+ FullyQualifiedErrorId : PathNotFound,Microsoft.PowerShell.Commands.GetContentCommand

PS C:\Users\Felhasznalo> $n= "C:\Users\Felhasznalo\Documents\neptunkod.txt"
PS C:\Users\Felhasznalo> $neptunkod = Get-Content $n
PS C:\Users\Felhasznalo> $neptunkod
Koloszvari Gergo
PS C:\Users\Felhasznalo> $neptunkod.Count
1
PS C:\Users\Felhasznalo> Get-Item $n

Directory: C:\Users\Felhasznalo\Documents

Mode                LastWriteTime         Length Name
----                -
-a----           08/03/2021    20:58             18 neptunkod.txt

PS C:\Users\Felhasznalo>
```

Betudunk kérni egy txt fájlt, annak tartalmát, hány sorból áll, és különböző adatait.