1. $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
```

   a. Megmutatja a PS verzióját.
2. Get-Service | Get-Member
   a. Megmutatja a használható parancsokat, illetve ezeket típus alapján sorbarendezi.

```
   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 desiredStatus), void WaitForStatus(System.S...
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();
```

3. Get-Service
   a. Jelenleg futó szolgáltatásokat mutatja

```
Stopped   Origin Client S...  Origin Client Service
Running   Origin Web Help...  Origin Web Helper Service
Stopped   ose64               Office 64 Source Engine
Stopped   p2pimsvc            Peer Networking Identity Manager
Stopped   p2psvc              Peer Networking Grouping
Running   PcaSvc              Program Compatibility Assistant Ser...
Stopped   PeerDistSvc         BranchCache
Stopped   perceptionsimul...  Windows Perception Simulation Service
Stopped   PerfHost            Performance Counter DLL Host
Stopped   PhoneSvc            Phone Service
Running   PimIndexMainten...  PimIndexMaintenanceSvc_5f077
Stopped   pla                 Performance Logs & Alerts
Running   PlugPlay            Plug and Play
Stopped   PNRPAutoReg         PNRP Machine Name Publication Service
Stopped   PNRPsvc             Peer Name Resolution Protocol
Running   PolicyAgent         IPsec Policy Agent
Running   Power               Power
Stopped   PrintNotify         Printer Extensions and Notifications
Running   PrintWorkflowUs...  PrintWorkflowUserSvc_5f077
Running   ProfSvc             User Profile Service
Stopped   PushToInstall       Windows PushToInstall Service
Running   QWAVE               Quality Windows Audio Video Experience
Stopped   RasAuto             Remote Access Auto Connection Manager
Running   RasMan              Remote Access Connection Manager
Stopped   RemoteAccess        Routing and Remote Access
Stopped   RemoteRegistry      Remote Registry
Stopped   RetailDemo          Retail Demo Service
Running   RmSvc               Radio Management Service
Stopped   Rockstar Service    Rockstar Game Library Service
Running   RpcEptMapper        RPC Endpoint Mapper
Stopped   RpcLocator          Remote Procedure Call (RPC) Locator
Running   RpcSs               Remote Procedure Call (RPC)
Running   SamSs               Security Accounts Manager
Stopped   SCardSvr            Smart Card
Stopped   ScDeviceEnum        Smart Card Device Enumeration Service
Running   Schedule            Task Scheduler
Stopped   SCPolicySvc         Smart Card Removal Policy
Stopped   SDRSVC              Windows Backup
Stopped   seclogon            Secondary Logon
Running   SecurityHealthS...  Windows Security Service
Stopped   SEMgrSvc            Payments and NFC/SE Manager
Running   SENS                System Event Notification Service
Stopped   Sense               Windows Defender Advanced Threat Pr...
Stopped   SensorDataService   Sensor Data Service
Stopped   SensorService       Sensor Service
```

4. Get-ChidItem
   a. C:\users\felhasználó mappa tartalmát mutatja

```
Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----        2018-09-08     10:50                .cache
d-----        2021-02-22     13:04                .config
d-----        2020-01-12     12:13                .eclipse
d-----        2018-12-04     19:12                .idlerc
d-----        2020-02-27     21:48                .Origin
d-----        2021-03-10     12:42                .p2
d-----        2019-04-11     20:07                .QtWebEngineProcess
d-----        2019-10-31     18:56                .ssh
d-----        2018-08-27     23:12                .thumbnails
d-----        2019-04-01     16:22                .tooling
d-----        2021-03-01     16:18                .VirtualBox
d-r---        2020-08-21     23:58                3D Objects
d-----        2019-06-10     18:28                ansel
d-----        2021-03-03     18:36                BrawlhallaReplays
d-r---        2020-08-21     23:58                Contacts
d-r---        2021-03-06     11:44                Desktop
d-r---        2021-01-25     17:42                Documents
d-r---        2021-03-10     16:55                Downloads
d-----        2021-02-12     18:35                eclipse
d-----        2021-03-09     16:25                eclipse-workspace
d-r---        2020-08-21     23:58                Favorites
d-----        2018-07-16     19:28                Intel
d-r---        2020-08-21     23:58                Links
d-r---        2020-08-21     23:58                Music
dar--l        2021-02-27     11:04                OneDrive
d-r---        2020-11-23     13:35                Pictures
d-r---        2020-08-21     23:58                Saved Games
d-r---        2020-08-21     23:58                Searches
d-----        2018-11-14     17:44                source
d-r---        2020-08-21     23:58                Videos
-a----        2021-02-18     12:33           197  .gitconfig
-a----        2020-12-04     11:35           100  .gtk-bookmarks
-a----        2019-05-14     13:27           164  .packettracer
```

5. Get-Alias
   a. A parancsok rövidített nevét lekérdezi.

```
CommandType     Name                                               Version    Source
-----------     ----                                               -------    ------
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                          3.1.0.0    Microsoft.PowerShell.Utility
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           epcsv -> 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                                  3.1.0.0    Microsoft.PowerShell.Utility
```

6. „processz" nevű process létrehozva és futtatva

```
Handles  NPM(K)    PM(K)      WS(K)     CPU(s)     Id  SI ProcessName
-------  ------    -----      -----     ------     --  -- -----------
    706      31    61508      11564       4.23  11940   1 ACCStd
    325       9     6080       9032              3532   0 AdminService
    567      33    36296      38712       0.27   2112   1 ApplicationFrameHost
    470      23    42980      46420     279.88   2820   0 audiodg
    521      27    21404       2204       0.42   2784   1 Calculator
    146       8     1848       8984       0.05   8496   1 CompPkgSrv
    100       7     6308       5592              7592   1 conhost
    100       7     6304      11376              9644   1 conhost
    100       7     6336       1104       0.06  11636   1 conhost
    959      52    37844      50868              3516   0 Corsair.Service
    461      33    38176      37260              7584   1 Corsair.Service.CpuIdRemote64
    433      26    18256      26952             15096   1 Corsair.Service.DisplayAdapter
    333      14     2812       8060              3524   0 CorsairGamingAudioCfgService64
    735      24     2084       5360               716   0 csrss
    774      31     2520       6120               816   1 csrss
    536      18     9028      23772       6.19   5288   1 ctfmon
    251      17     2140      11300              3632   0 CueLLAccessService
    158       7     1324       4652              4112   0 dasHost
    440      24    18664      39588       5.39   3972   1 Discord
    213      15    11196      22372       0.06  13380   1 Discord
    306      21    12828      30696       0.31  15416   1 Discord
    735      57    36376      54880      45.84  15532   1 Discord
   1201     142   253576     303612     899.69  15832   1 Discord
    451      29    26444      38916      74.91  15864   1 Discord
    209      17     3296      10400              8468   0 dllhost
    235      17     4200      12660       0.17  12104   1 dllhost
    132       8     1732       7612       0.05  14672   1 dllhost
   1150      58    95780     105076              1220   1 dwm
    801      99   237504     120640      82.28  15656   1 EpicGamesLauncher
    436      24    32472      34032       0.22   2608   1 EpicWebHelper
    293      20    21572      29036       0.23  12044   1 EpicWebHelper
   2322     339    68580     100648      67.23   8404   1 explorer
     32       5     1492       3132               316   0 fontdrvhost
     39       8     3220       7804              1068   1 fontdrvhost
    648      32    15880       1884       0.31  17160   1 GameBar
    292      13     2968      13008       0.14  16496   1 GameBarFTServer
    488      21     6312      23536              8076   0 GamingServices
    102       6     1136       4808              8172   0 GamingServicesNet
    264      15     3468      12904              3888   0 hamachi-2
   1009      46    35904       2560       1.05   8764   1 HxOutlook
```

7.
   a. Get-Service | fl name, status

```
Name    : WdiSystemHost
Status  : Running

Name    : WdNisSvc
Status  : Running

Name    : WebClient
Status  : Running

Name    : Wecsvc
Status  : Stopped

Name    : WEPHOSTSVC
Status  : Stopped

Name    : wercplsupport
Status  : Stopped

Name    : WerSvc
Status  : Stopped

Name    : WFDSConMgrSvc
Status  : Stopped

Name    : WiaRpc
Status  : Stopped

Name    : WinDefend
Status  : Running

Name    : WinHttpAutoProxySvc
Status  : Running

Name    : Winmgmt
Status  : Running

Name    : WinRM
Status  : Stopped

Name    : wisvc
Status  : Stopped
```

   i.

b. Get-Service | ft name, status

```
PhoneSvc                                           Stopped
PimIndexMaintenanceSvc_5f077                        Running
pla                                                Stopped
PlugPlay                                           Running
PNRPAutoReg                                        Stopped
PNRPsvc                                            Stopped
PolicyAgent                                        Running
Power                                              Running
PrintNotify                                        Stopped
PrintWorkflowUserSvc_5f077                          Running
ProfSvc                                            Running
PushToInstall                                      Stopped
QWAVE                                              Running
RasAuto                                            Stopped
RasMan                                             Running
RemoteAccess                                       Stopped
RemoteRegistry                                     Stopped
RetailDemo                                         Stopped
RmSvc                                              Running
Rockstar Service                                   Stopped
RpcEptMapper                                       Running
RpcLocator                                         Stopped
RpcSs                                              Running
SamSs                                              Running
SCardSvr                                           Stopped
ScDeviceEnum                                       Stopped
Schedule                                           Running
SCPolicySvc                                        Stopped
SDRSVC                                             Stopped
seclogon                                           Stopped
SecurityHealthService                              Running
SEMgrSvc                                           Stopped
SENS                                               Running
Sense                                              Stopped
SensorDataService                                  Stopped
SensorService                                      Stopped
SensrSvc                                           Stopped
Service KMSELDI                                    Running
SessionEnv                                         Stopped
SgrmBroker                                         Running
SharedAccess                                       Stopped
SharedRealitySvc                                   Stopped
ShellHWDetection                                   Running
shpamsvc                                           Stopped
```

i.

c. Get-Service | ft name, status -AutoSize

```
vmictimesync                               Stopped
vmicvmsession                              Stopped
vmicvss                                    Stopped
VSS                                        Stopped
W32Time                                    Running
WaaSMedicSvc                               Stopped
WalletService                              Stopped
WarpJITSvc                                 Stopped
wbengine                                   Stopped
WbioSrvc                                   Stopped
Wcmsvc                                     Running
wcncsvc                                    Stopped
WdiServiceHost                             Running
WdiSystemHost                              Running
WdNisSvc                                   Running
WebClient                                  Running
Wecsvc                                     Stopped
WEPHOSTSVC                                 Stopped
wercplsupport                              Stopped
WerSvc                                     Stopped
WFDSConMgrSvc                              Stopped
WiaRpc                                     Stopped
WinDefend                                  Running
WinHttpAutoProxySvc                        Running
Winmgmt                                    Running
WinRM                                      Stopped
wisvc                                      Stopped
WlanSvc                                    Running
wlidsvc                                    Stopped
wlpasvc                                    Stopped
WManSvc                                    Stopped
wmiApSrv                                   Stopped
WMPNetworkSvc                              Stopped
workfolderssvc                             Stopped
WpcMonSvc                                  Stopped
WPDBusEnum                                 Stopped
WpnService                                 Running
WpnUserService_5f077                       Running
wscsvc                                     Running
WSearch                                    Running
wuauserv                                   Running
WwanSvc                                    Stopped
XblAuthManager                             Running
```

i.

8.
   a. Get-Process | Sort-Object name

```
 722     24      2084      5360              716   0 csrss
 774     31      2520      6120              816   1 csrss
 534     18      9656     24368     7.23    5288   1 ctfmon
 251     17      2140     11300              3632  0 CueLLAccessService
 158      7      1324      4652              4112  0 dasHost
 438     24     18252     39356     5.72    3972   1 Discord
 213     15     11128     22348     0.09   13380   1 Discord
 306     21     12764     30672     0.31   15416   1 Discord
 735     58     36408     54700    49.48   15532   1 Discord
1264    145    261592    322840   962.53   15832   1 Discord
 449     29     26308     39708    75.42   15864   1 Discord
 128      8      1680      7588     0.05   14672   1 dllhost
 203     16      3132     10296              8468  0 dllhost
 233     17      4096     12620     0.17   12104   1 dllhost
1164     58    102120    111580             1220  1 dwm
 791     97    237632    121468    94.33   15656   1 EpicGamesLauncher
 436     24     32472     34032     0.22    2608   1 EpicWebHelper
 291     20     21540     29020     0.23   12044   1 EpicWebHelper
2320    362     65328     96332    76.55    8404   1 explorer
  32      5      1492      3132               316  0 fontdrvhost
  39      9      4696      9816              1068  1 fontdrvhost
 648     32     15880      1884     0.31   17160   1 GameBar
 292     13      2968     13008     0.14   16496   1 GameBarFTServer
 522     22      6292     23424              8076  0 GamingServices
 102      6      1136      4772              8172  0 GamingServicesNet
 264     15      3468     12872              3888  0 hamachi-2
1009     46     35904      2560     1.05    8764   1 HxOutlook
 717     32     18800     34612     1.78    3876   1 HxTsr
1002     76    141488     82920   258.78   12920   1 iCUE
   0      0        60         8                 0  0 Idle
 173     10      1972      8648              2296  0 igfxCUIService
 240     15      3856     13536     0.36    8000   1 igfxEM
 167      9      1612      7636              3596  0 IntelCpHDCPSvc
 175      9      1924      8084              3672  0 IntelCpHeciSvc
 154     10      1288      6856             13904  0 jhi_service
 169     10      1912      7908              3880  0 LMIGuardianSvc
 266     15      3452     12288             12500  0 LMS
 542     27     12220     53132     0.45   14936   1 LockApp
1544     26      8520     19800               912  0 lsass
   0      0      1264    152736              2236  0 Memory Compression
 512     20     35236     22168              1752  0 MoUsoCoreWorker
 220     13      8792     20772     0.08   15480   1 msedge
 182      9      2052      8256     0.02   13976   1 msedge
 334     17     48060     88888     1.58   13548   1 msedge
```

   i.

b. Get-Process | Sort-Object name

```
Handles  NPM(K)    PM(K)      WS(K)   CPU(s)      Id  SI ProcessName
-------  ------    -----      -----   ------      --  -- -----------
    722      24     2084       5360              916   0 csrss
    774      31     2520       6120              816   1 csrss
    534      18     9556      24368    7.23    52588   1 ctfmon
    251      17     2140      11300             3632   0 CxUtilAccessService
    158       7     1324       4652             4112   0 dasHost
    438      24    18252      39356    5.72      392   1 Discord
    213      15    11128      22348    0.09    13380   1 Discord
    306      21    12764      30672    0.31    15416   1 Discord
    735      58    36408      54700   49.48    15532   1 Discord
   1264     145   261592     328240   96.53    15832   1 Discord
    449      29    26808      39708   75.42    15864   1 Discord
    128       8     1680       7588    0.05     1672   1 dllhost
    203      16     3132      10296             8468   0 dllhost
    233      17     4096      12620    0.17    12104   1 dllhost
   1164      58   102720     111580             1220   1 dwm
    791      97   237632     121468   94.33    15556   1 EpicGamesLauncher
    436      24    32472      32803    0.22     2608   1 EpicWebHelper
    291      20    21540      29020    0.23    12044   1 EpicWebHelper
   2320     362    65328      96332   76.55     8404   1 explorer
     32       5     1492       3132              916   0 fontdrvhost
     39       9     4696       9816             1068   1 fontdrvhost
    648      32    15880       1884    0.31    17160   1 GameBar
    292      13     2968      13008    0.14    16496   1 GameBarFTServer
    522      22     6292      23424             8076   0 GamingServices
    102       6     1136       4772             8172   0 GamingServicesNet
    264      15     3468      12872             3888   0 hamachi-2
   1009      46    35904       2560    1.05     8764   1 HxOutlook
    717      32    18800      34612    7.7      9786   1 HxTsr
   1002      76   141488      82920  258.78   129270   1 iCUE
      0       0       60          8                0   0 Idle
    173      10     1972       8648             2296   0 igfxCUIService
    240      15     3856      13536    0.36     8000   1 igfxEM
    167       9     1912       7636             3596   0 IntelCpHDCPSvc
    175       9     1924        808             3672   0 IntelCpHeciSvc
    154      10     1288       6856            13904   0 jhi_service
    169      10     1912       7908             3880   0 LMIGuardianSvc
    266      15     3452      12288            12500   0 LMS
    542      27    12220      53132    0.45    14936   1 LockApp
   1544      26     8520      19800              912   0 lsass
      0       0     1264     152736             2236   0 Memory Compression
    512      20    35236      22168             1752   0 MoUsoCoreWorker
    220      13     8792      20772    0.08    15480   1 msedge
    182       9     2052       8256    0.02     1976   1 msedge
    334      17    48060      88888    1.58    13548   1 msedge
```

   i.

9.

a. Get-Service | Where-Object { $_.name -eq "w32time" }

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

   i.

10.

a. 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
```

   i.

11.

    a. Get-Service | Group-Object status

```
Count Name                           Group
----- ----                           -----
  117 Running                        {AarSvc_5f077, Appinfo, AtherosSvc, AudioEndpointBuilder...}
  170 Stopped                        {AJRouter, ALG, AppIDSvc, AppMgmt...}
```
        i.

    b. Get-Process | ForEach-Object { $_.id*2 }

```
8096
8704
9472
10976
12256
12768
12864
12896
13248
13288
13304
14304
15024
17088
17744
17856
18128
18392
18968
20312
20680
23328
25192
25440
26600
28264
30848
32112
8
23096
29304
13816
30712
16048
31384
17664
1672
1928
19624
6920
9448
12128
21048
```
        i.

12.

    a. Get-Process | Measure-Object

```
Count    : 206
Average  :
Sum      :
Maximum  :
Minimum  :
Property :
```
        i.

13.
   a. Get-Process | Measure-Object -Property id -Maximum -Minimum -Average -Sum

      i.
```
Count     : 207
Average   : 6874.58937198068
Sum       : 1423040
Maximum   : 17160
Minimum   : 0
Property  : Id
```

14.
   a. (Get-Service).count
      i. 287
   b. $x = (Get-Service) – lekérdezni echo $x.Count
      i. 287

15.
   a. $x | Get-Member

      i.
```
Name         MemberType  Definition
----         ----------  ----------
CompareTo    Method      int CompareTo(System.Object value), int CompareTo(int value), int IComparable.CompareTo(System.Object obj),
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 provider), string
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)
```

16.
   a. "$szoveg-on élek."

      i.
```
PS C:\Users_____> "$szoveg egy kupac hulladék"
Miskolc egy kupac hulladék
```

17.
   a. $szoveg.Length
      i. 7
   b. $szoveg.ToUpper()
      i. MISKOLC
   c. $szoveg.Replace("kolc", "ka")
      i. Miska
   d. $szoveg.Split("s")
      i. Mi   kolc

18.
   a. Get-Service| Out-GridView

      i.
19.

   a.