Operációs rendszerek BSc

1. Gyak.

2022. 03. 07.

Készítette:

István Miklós Bsc
Mérnökinformatikus
VN7XCW

Miskolc, 2022

```
PS C:\Users\istva> $szoveg = "Miskolc"
PS C:\Users\istva> "$szoveg-on élek."
Miskolc-on élek.
PS C:\Users\istva> '$szoveg-on élek.'
$szoveg-on élek.
PS C:\Users\istva>
```

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


Count    : 220
Average  : 9175,96363636364
Sum      : 2018712
Maximum  : 23236
Minimum  : 0
Property : Id



PS C:\Users\istva>
```

```
PS C:\Users\istva> Get-Process | ForEach-Object { $_.id*2 }
11680
43424
2368
7984
8000
8024
6816
26256
41160
7968
27448
8040
8152
8096
24672
4520
35936
3072
6624
8616
8872
12712
24240
24848
34512
34576
36256
42472
45744
12856
32744
38600
4344
1624
42944
10512
12200
23216
37128
14512
13944
33032
2336
45512
24248
24360
8304
0
14248
1920
5744
44704
```

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

Count Name                      Group
----- ----                      -----
  128 Running                   {AarSvc_a53e748, AMD External Events Utility, Appinfo, AppXSvc...}
  163 Stopped                   {AJRouter, ALG, AppIDSvc, AppMgmt...}


PS C:\Users\istva>
```

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

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

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


PS C:\Users\istva>
```

> Windows PowerShell

```
  581      46    28944    25468     0,83  22352    8 Microsoft.Photos
    0       0      684   148352            2872    0 Memory Compression
 1835      33    12220    29576             960    0 lsass
  572      31    15884    54432     1,66   7124    8 LockApp
    0       0       60        8               0    0 Idle
  786      17     6756    14028            4152    0 HPPrintScanDoctorService
  171      10     1836     1024           12180    0 GoogleCrashHandler64
  189      12     1820     1616           12124    0 GoogleCrashHandler
   33       6     1784     3528            1168    0 fontdrvhost
   33       8     3460     8724           22756    8 fontdrvhost
  214      14     4060    19460     1,64  16516    8 FileCoAuth
 3571     127   155096   227868   107,03   6972    8 explorer
 1431      80   199824   120216            7256    8 dwm
  204      19     3860    11120           11608    0 dllhost
 2305      27     8376    18356     4,39  18564    8 dllhost
  397      21     5228    14316            5256    0 dasHost
   92       6      980     4560            6100    0 dasHost
  657      27     2084     6428             812    0 csrss
  595      24     9852     7056           21472    8 csrss
  454      17     4124    21304     3,75   2172    8 ctfmon
  725      52    29904    65760     1,92  19300    8 Cortana
  258      14    13332    26452     6,31   6428    8 conhost
  117       8     5552     1456     0,09  16372    8 conhost
  255      16    25468    58288     1,13   4436    8 chrome
  210      16    21588    38604     1,53   6356    8 chrome
  248      15    21156    56316     0,73  12120    8 chrome
 1411      50   124336   204176    30,97   1536    8 chrome
  247      15    48484    84972     5,38   3312    8 chrome
  216      14     7252    18512     0,23   4308    8 chrome
  350      18    59844   102972    11,58  18128    8 chrome
  305      19    15176    38024     4,64  21236    8 chrome
  222      15    12772    28240     0,19  22872    8 chrome
  290      17    25472    84484    20,30  12424    8 chrome
  187      10     1924     7960     0,02  17256    8 chrome
  743      33   184224   182380    20,41  17288    8 chrome
  773      25    66804    60360     1,77  17968    0 audiodg
  177       9     1692     6024            2260    0 atiesrxx
  276      13     2644    12360           12336    8 atieclxx
  150       9     1876     8060            4048    0 AsusSystemDiagnosis
 2080      21     4076    13856            4076    0 AsusSystemAnalysis
  186      11     2360     8732            4020    0 AsusSwitch
  454      22    32944    32484     0,33  13724    8 AsusSoftwareManagerAgent
  582      20    10540    19080            3984    0 AsusSoftwareManager
  168      15     3332    14504     0,22  20580    8 AsusOSD
  297      15     3024    16520     0,20  13128    8 AsusOptimizationStartupTask
  167      10     2124     7288            3408    0 AsusOptimization
  199      12     5928     8908            4012    0 AsusLinkRemote
  349      17     3880    12152            4000    0 AsusLinkNear
  325      18     6064    21652            3992    0 AsusAppService
  152       8     1580     7560            1184    0 AppVShNotify
  597      32    27732    45160     3,52  21712    8 ApplicationFrameHost
   88       6     1440     5852            5840    0 AggregatorHost


PS C:\Users\istva>
```

```
 285     14      3336     20752    0,59    1136    8 svchost
 543     15      4504     16512            808     0 svchost
 224     13      3820     13416            1060    0 svchost
 400     11      3108      9036            1324    0 svchost
 542     10      2456     12360            1588    0 svchost
 373     12      3000      9056            1716    0 svchost
 207     12      9592     10472            1580    0 svchost
 418     19      6976     17128            1560    0 svchost
 270     14      2812     10456            1568    0 svchost
 204     11      2512      9656            2648    0 svchost
 273     15      3740     15972            3824    0 svchost
 363     30      8696     17552            3976    0 svchost
 174     11      1876      7384            3696    0 svchost
 137     10      2224     13768    0,19    3520    8 svchost
 471     34     13076     21284            3652    0 svchost
 233     11      2548      9360            4028    0 svchost
 373     22      3040     10764            4212    0 svchost
 237     14      3036     11352            4284    0 svchost
 274     15      2936      7956            4164    0 svchost
 583     24     19556     32704            4040    0 svchost
 387     23     25160     37228            4056    0 svchost
 181     13      1984      8436            2912    0 svchost
 290     11      2500      9536            2948    0 svchost
 179     10      2092      7712            2760    0 svchost
 238     13      4588     14536            2744    0 svchost
 241      8      1312      5704            2748    0 svchost
 176     11      2240      8520            2956    0 svchost
 581     27      8284     21012            3352    0 svchost
 253     17      4276     15028            3400    0 svchost
 434     16      9096     19164            3328    0 svchost
 445     14      3448     10244            3108    0 svchost
 159      9      2024      6600            3116    0 svchost
6232      0        44      3264               4    0 System
1163     62     40544      2344    2,84    8660    8 SystemSettings
 559     25      8196     34608    3,22   18904    8 SystemSettingsBroker
 288     55     13992     24840    2,23    3456    8 taskhostw
 121      8      1388      7828            8456    0 unsecapp
 125     10      1940     10092    0,03   12268    8 UserOOBEBroker
 192     10      2048     11152           13556    0 VBoxSDS
1055     18      7880     24188    0,61    5508    8 VBoxSVC
 504     22     61036    103496   12,34   20960    8 VirtualBox
  69      4      1084      8204    0,16   22344    8 VirtualBoxVM
  76      4      1996      4832    0,20   17892    8 VirtualBoxVM
1656    178    167828    159196   94,70    2032    8 VirtualBoxVM
 750     29      8016     39020    8,00   21920    8 Widgets
 253     29      8728     24668    0,13   21292    8 Win32Bridge.Server
 170     10      1652      6800            4628    0 WindscribeService
 166     11      1472      6880             948    0 wininit
 279     13      2644     14484            8108    8 winlogon
 203     14      3432     11044            3872    0 WmiPrvSE
1006     54     31692     25524    3,75    9452    8 YourPhone
1268     67     77432     95788   23,05   21264    8 YourPhoneServer


PS C:\Users\istva>
```

```
Windows PowerShell

vmicheartbeat                           Stopped
vmickvpexchange                         Stopped
vmicrdv                                 Stopped
vmictimesync                            Stopped
vmicvmsession                           Stopped
vmicvss                                 Stopped
vmicshutdown                            Stopped
VSS                                     Stopped
VSStandardCollectorService150           Stopped
W32Time                                 Stopped
WaaSMedicSvc                            Stopped
WalletService                           Stopped
WarpJITSvc                              Stopped
wbengine                                Stopped
WbioSrvc                                Stopped
Wcmsvc                                  Running
wcncsvc                                 Running
WdiServiceHost                          Stopped
WdiSystemHost                           Stopped
WdNisSvc                                Running
WebClient                               Running
Wecsvc                                  Stopped
WEPHOSTSVC                              Stopped
wercplsupport                           Stopped
WerSvc                                  Stopped
WFDSConMgrSvc                           Stopped
WiaRpc                                  Stopped
WinDefend                               Running
WindscribeService                       Running
WinHttpAutoProxySvc                     Running
Winmgmt                                 Running
WinRM                                   Stopped
wisvc                                   Stopped
WlanSvc                                 Running
wlidsvc                                 Running
wlpasvc                                 Stopped
WManSvc                                 Stopped
wmiApSrv                                Stopped
WMPNetworkSvc                           Stopped
workfolderssvc                          Stopped
WpcMonSvc                               Stopped
WPDBusEnum                              Stopped
WpnService                              Running
WpnUserService_a53e748                  Running
wscsvc                                  Running
WSearch                                 Running
wuauserv                                Stopped
WwanSvc                                 Stopped
XblAuthManager                          Running
XblGameSave                             Stopped
XboxGipSvc                              Running
XboxNetApiSvc                           Stopped


PS C:\Users\istva>
```

```
Windows PowerShell

vmicheartbeat                          Stopped
vmickvpexchange                        Stopped
vmicrdv                                Stopped
vmictimesync                           Stopped
vmicvmsession                          Stopped
vmicvss                                Stopped
vmicshutdown                           Stopped
VSS                                    Stopped
VSStandardCollectorService150          Stopped
W32Time                                Stopped
WaaSMedicSvc                           Stopped
WalletService                          Stopped
WarpJITSvc                             Stopped
wbengine                               Stopped
WbioSrvc                               Stopped
Wcmsvc                                 Running
wcncsvc                                Running
WdiServiceHost                         Stopped
WdiSystemHost                          Stopped
WdNisSvc                               Running
WebClient                              Running
Wecsvc                                 Stopped
WEPHOSTSVC                             Stopped
wercplsupport                          Stopped
WerSvc                                 Stopped
WFDSConMgrSvc                          Stopped
WiaRpc                                 Stopped
WinDefend                              Running
WindscribeService                      Running
WinHttpAutoProxySvc                    Running
Winmgmt                                Running
WinRM                                  Stopped
wisvc                                  Stopped
WlanSvc                                Running
wlidsvc                                Running
wlpasvc                                Stopped
WManSvc                                Stopped
wmiApSrv                               Stopped
WMPNetworkSvc                          Stopped
workfolderssvc                         Stopped
WpcMonSvc                              Stopped
WPDBusEnum                             Stopped
WpnService                             Running
WpnUserService_a53e748                 Running
wscsvc                                 Running
WSearch                                Running
wuauserv                               Stopped
WwanSvc                                Stopped
XblAuthManager                         Running
XblGameSave                            Stopped
XboxGipSvc                             Running
XboxNetApiSvc                          Stopped


PS C:\Users\istva>
```

```
Name    : wlpasvc
Status  : Stopped

Name    : WManSvc
Status  : Stopped

Name    : wmiApSrv
Status  : Stopped

Name    : WMPNetworkSvc
Status  : Stopped

Name    : workfolderssvc
Status  : Stopped

Name    : WpcMonSvc
Status  : Stopped

Name    : WPDBusEnum
Status  : Stopped

Name    : WpnService
Status  : Running

Name    : WpnUserService_a53e748
Status  : Running

Name    : wscsvc
Status  : Running

Name    : WSearch
Status  : Running

Name    : wuauserv
Status  : Stopped

Name    : WwanSvc
Status  : Stopped

Name    : XblAuthManager
Status  : Running

Name    : XblGameSave
Status  : Stopped

Name    : XboxGipSvc
Status  : Running

Name    : XboxNetApiSvc
Status  : Stopped


PS C:\Users\istva>
```

```
PS C:\Users\istva> Get-Alias processz

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


PS C:\Users\istva>
```

```
  283       12      2832       9012                  7608    0 svchost
  346       13      2988      13336                  8392    0 svchost
  128        9      1568       7532                  8624    0 svchost
  279       24      3352      13484                  8888    0 svchost
  200       14      2804      12028                  8932    0 svchost
  199       16      7188      11208                  9812    0 svchost
 1636       23     12376      32616                 10328    0 svchost
  326       40      2584      12168                 10524    0 svchost
  220       12      2896      13184     0,25        10544    8 svchost
  151       11      2692      14784     0,03        10716    8 svchost
  385       15      5020      12012                 11572    0 svchost
  207       11      2132      11080                 11748    0 svchost
  678       18      5216      20844                 11752    0 svchost
  139        9      3316       9888                 12176    0 svchost
  172       10      1912       8148                 12456    0 svchost
  349       17      4972      22592                 14060    0 svchost
  434       19      7760      19652                 14556    0 svchost
  278       36      2416      12792                 14636    0 svchost
  306       16      3484      15736                 14728    0 svchost
  346       20      6440      22148     2,11        14972    8 svchost
  499       19     10368      33476     4,09        15220    8 svchost
  256       14      3200      11720                 15232    0 svchost
  205       13      2556      12196                 15720    0 svchost
  110        8      1444       6720                 16524    0 svchost
  152       10      3884      12396                 16852    0 svchost
  133       10      1628       7604                 18744    0 svchost
  270       16      2924      10020                 20072    0 svchost
  136        9      1708      12052     0,02        20084    8 svchost
  272       14      3540      23208     0,41        20352    8 svchost
  417       18      4664      19132                 21876    0 svchost
  573       23      9016      37352    13,20        23236    8 svchost
 6173        0        44       3256                     4    0 System
 1163       62     40544      50880     2,84         8660    8 SystemSettings
  544       25      8192      34612     3,19        18904    8 SystemSettingsBroker
  286       55     13992      24920     2,11         3456    8 taskhostw
  117        8      1388       7840                  8456    0 unsecapp
  125       10      1940      10104     0,03        12268    8 UserOOBEBroker
  192       11      2080      11244                 13556    0 VBoxSDS
 1058       19      7956      24280     0,53         5508    8 VBoxSVC
  504       22     60956     104368     4,44        20960    8 VirtualBox
 1657      176    169316     188352    72,08         2032    8 VirtualBoxVM
   76        4      1996       5140     0,20        17892    8 VirtualBoxVM
   69        4      1084       8488     0,16        22344    8 VirtualBoxVM
  736       29      7848      38896     7,58        21920    8 Widgets
  253       29      8728      24668     0,13        21292    8 Win32Bridge.Server
  170       10      1652       6800                  4628    0 WindscribeService
  166       11      1472       6880                   948    0 wininit
  279       13      2644      14484                  8108    8 winlogon
  211       15      3584      11396                  3872    0 WmiPrvSE
  173       12      3072      11468                 11440    0 WmiPrvSE
 1006       54     31692      25832     3,75         9452    8 YourPhone
 1221       67     77020      95436    22,45        21264    8 YourPhoneServer


PS C:\Users\istva>
```

```
Alias           r -> Invoke-History
Alias           rbp -> Remove-PSBreakpoint
Alias           rcjb -> Receive-Job
Alias           rcsn -> Receive-PSSession
Alias           rd -> Remove-Item
Alias           rdr -> Remove-PSDrive
Alias           ren -> Rename-Item
Alias           ri -> Remove-Item
Alias           rjb -> Remove-Job
Alias           rm -> Remove-Item
Alias           rmdir -> Remove-Item
Alias           rmo -> Remove-Module
Alias           rni -> Rename-Item
Alias           rnp -> Rename-ItemProperty
Alias           rp -> Remove-ItemProperty
Alias           rsn -> Remove-PSSession
Alias           rsnp -> Remove-PSSnapin
Alias           rujb -> Resume-Job
Alias           rv -> Remove-Variable
Alias           rvpa -> Resolve-Path
Alias           rwmi -> Remove-WmiObject
Alias           sajb -> Start-Job
Alias           sal -> Set-Alias
Alias           saps -> Start-Process
Alias           sasv -> Start-Service
Alias           sbp -> Set-PSBreakpoint
Alias           sc -> Set-Content
Alias           scb -> Set-Clipboard                        3.1.0.0    Microsoft.PowerShell.Management
Alias           select -> Select-Object
Alias           set -> Set-Variable
Alias           shcm -> Show-Command
Alias           si -> Set-Item
Alias           sl -> Set-Location
Alias           sleep -> Start-Sleep
Alias           sls -> Select-String
Alias           sort -> Sort-Object
Alias           sp -> Set-ItemProperty
Alias           spjb -> Stop-Job
Alias           spps -> Stop-Process
Alias           spsv -> Stop-Service
Alias           start -> Start-Process
Alias           stz -> Set-TimeZone                         3.1.0.0    Microsoft.PowerShell.Management
Alias           sujb -> Suspend-Job
Alias           sv -> Set-Variable
Alias           swmi -> Set-WmiInstance
Alias           tee -> Tee-Object
Alias           trcm -> Trace-Command
Alias           type -> Get-Content
Alias           wget -> Invoke-WebRequest
Alias           where -> Where-Object
Alias           wjb -> Wait-Job
Alias           write -> Write-Output


PS C:\Users\istva>
```

```
PS C:\Users\istva> Get-ChildItem


    Directory: C:\Users\istva


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----        2022. 01. 24.     16:21            .config
d-----        2022. 02. 11.     23:25            .dotnet
d-----        2022. 02. 11.     23:48            .templateengine
d-----        2022. 02. 28.     12:14            .VirtualBox
d-----        2022. 01. 24.     16:19            .vscode
d-r---        2021. 10. 01.     21:54            3D Objects
d-----        2021. 10. 09.     17:58            ansel
d-r---        2021. 12. 04.     22:04            Contacts
d-----        2022. 02. 11.     23:23            Documents
d-r---        2022. 02. 24.     19:10            Downloads
d-r---        2021. 12. 04.     22:04            Favorites
d-r---        2021. 12. 04.     22:04            Links
d-r---        2021. 12. 04.     22:04            Music
dar--l        2022. 02. 25.     21:14            OneDrive
d-r---        2021. 12. 04.     22:04            Saved Games
d-r---        2021. 12. 04.     22:04            Searches
d-----        2022. 02. 12.      0:35            source
d-r---        2022. 02. 25.     21:13            Videos
d-----        2022. 02. 13.     21:02            VirtualBox VMs
d-----        2022. 02. 21.     23:45            VN7XCW
-a----        2022. 02. 24.     19:04        557 .bash_history
-a----        2022. 02. 21.     23:10        179 .gitconfig
-a----        2022. 02. 21.     22:52         15 README.md


PS C:\Users\istva>
```

```
Windows PowerShell

Stopped   vmicheartbeat       Hyper-V szívverési szolgáltatás
Stopped   vmickvpexchange     Hyper-V adatcsere-szolgáltatás
Stopped   vmicrdv             Hyper-V távoli asztali virtualizálá...
Stopped   vmictimesync        Hyper-V időszinkronizálási szolgált...
Stopped   vmicvmsession       Hyper-V PowerShell Direct szolgáltatás
Stopped   vmicvss             Hyper-V kötet árnyékmásolatának kér...
Stopped   vmicshutdown        Hyper-V vendégleállítási szolgáltatás
Stopped   VSS                 Kötet árnyékmásolata
Stopped   VSStandardColle...  Visual Studio Standard Collector Se...
Stopped   W32Time             Windows Time
Stopped   WaaSMedicSvc        Windows Update Medic szolgáltatás
Stopped   WalletService       WalletService
Stopped   WarpJITSvc          Warp JIT Service
Stopped   wbengine            Blokkszintű biztonsági mentés motor...
Stopped   WbioSrvc            Windows biometrikus szolgáltatás
Running   Wcmsvc              Windows Csatlakozáskezelő
Running   wcncsvc             Windows azonnali csatlakozás - konf...
Stopped   WdiServiceHost      Diagnosztikai gazdaszolgáltatás
Stopped   WdiSystemHost       Diagnosztikagazda
Running   WdNisSvc            A Microsoft Defender víruskereső há...
Running   WebClient           WebClient
Stopped   Wecsvc              Windows Eseménygyűjtő
Stopped   WEPHOSTSVC          Windows titkosításszolgáltatói gazd...
Stopped   wercplsupport       Hibajelentések vezérlőpult támogatása
Stopped   WerSvc              Windows hibajelentési szolgáltatás
Stopped   WFDSConMgrSvc       Wi-Fi Direct-szolgáltatások csatlak...
Stopped   WiaRpc              Állókép-beviteli események
Running   WinDefend           Microsoft Defender víruskereső szol...
Running   WindscribeService   WindscribeService
Running   WinHttpAutoProx...  WinHTTP automatikus webproxy-kereső...
Running   Winmgmt             Windows Management Instrumentation
Stopped   WinRM               Rendszerfelügyeleti webszolgáltatások
Stopped   wisvc               Windows Insider szolgáltatás
Running   WlanSvc             WLAN hálózat automatikus beállítása
Running   wlidsvc             Microsoft-fiók bejelentkezési segédje
Stopped   wlpasvc             Helyi profilkezelő szolgáltatás
Stopped   WManSvc             A Windows felügyeleti szolgáltatása
Stopped   wmiApSrv            WMI teljesítményadapter
Stopped   WMPNetworkSvc       A Windows Media Player hálózatmegos...
Stopped   workfolderssvc      Munkahelyi mappák
Stopped   WpcMonSvc           Szülői felügyelet
Stopped   WPDBusEnum          Hordozható eszközök számbavételi sz...
Running   WpnService          A Windows leküldéses értesítéseit k...
Running   WpnUserService_...  A Windows leküldéses értesítéseit k...
Running   wscsvc              Biztonsági központ
Running   WSearch             Windows Search
Stopped   wuauserv            Windows Update
Stopped   WwanSvc             WWAN automatikus konfigurálás
Running   XblAuthManager      Xbox Live engedélykezelő
Stopped   XblGameSave         Xbox Live játékmentés
Running   XboxGipSvc          Xbox Accessory Management Service
Stopped   XboxNetApiSvc       Xbox Live hálózati szolgáltatás


PS C:\Users\istva>
```

```
 Windows PowerShell                                                   —    □    ✕
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\istva>
```

```
PS C:\Users\istva> $szoveg = "Miskolc"
PS C:\Users\istva> "$szoveg-on élek."
Miskolc-on élek.
PS C:\Users\istva> '$szoveg-on élek.'
$szoveg-on élek.
PS C:\Users\istva> $szoveg.Length
7
PS C:\Users\istva> $szoveg.ToUpper()
MISKOLC
PS C:\Users\istva> $szoveg.Replace()
```