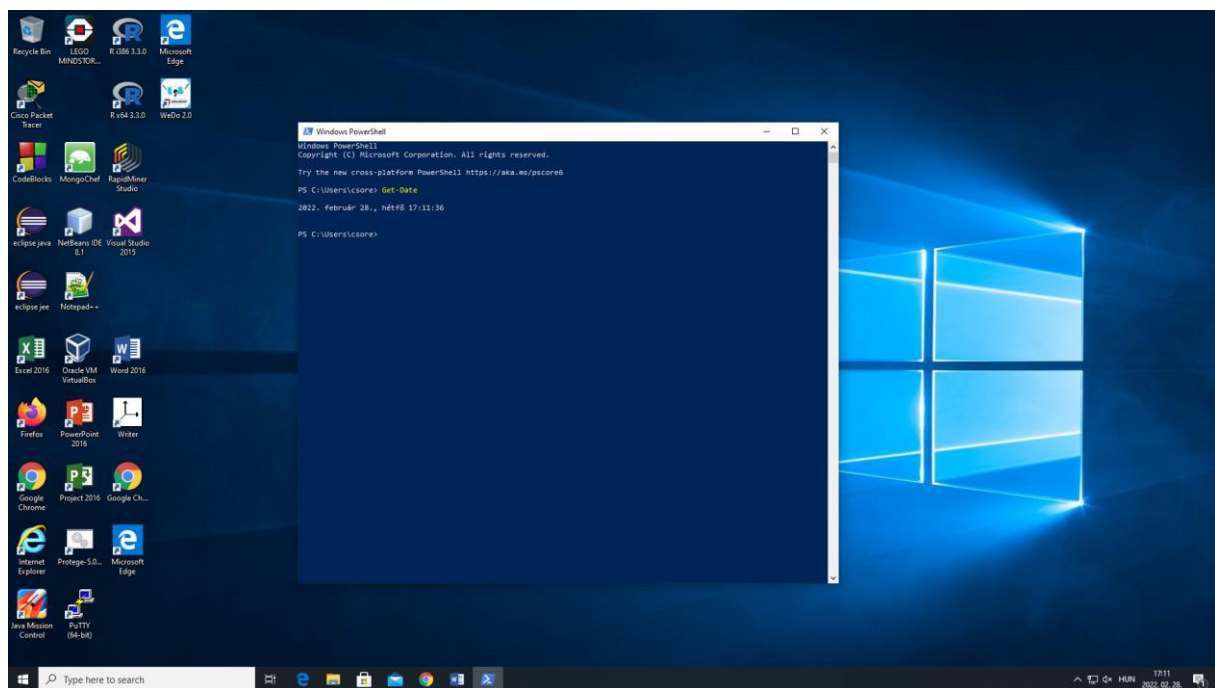


1.) PowerShell Verzió



2.) mai dátum

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

Status Name DisplayName
-----
Stopped AarSvc_12312a Agent Activation Runtime_12312a
Running AdobeAcrService Adobe Acrobat Update Service
Running AHostSvc AllHosts Router Service
Stopped ALG Application Layer Gateway Service
Stopped AppLocker Application Locking
Stopped AppInfo Application Information
Stopped AppMgr Application Management
Stopped AppReadiness App Readiness
Stopped AppClient Microsoft App-V Client
Running AppSvc App Deployment Service (AppXSVC)
Stopped aspen_state ASP.NET State Service
Stopped AssignAccessM... AssignAccessManager Service
Running AudioEndpointBu... Windows Audio Endpoint Builder
Running Audiodg Windows Audio
Stopped autotimesvc Cellular Time
Stopped AutoNdy Actual Installer (AutoNdy)
Stopped BcastTVUserSer... Game DVR and Broadcast User Service...
Running BDRSvc BitLocker Drive Encryption Service
Running BFE Base Filtering Engine
Running BITS Background Intelligent Transfer Ser...
Stopped BluetoothUserSe... Bluetooth User Support Service_12312a
Running BrokerInfrastru... Background Tasks Infrastructure Ser...
Running Brwseer Computer Browser
Stopped BTAGService Bluetooth Audio Gateway Service
Stopped Bthleapi Bluetooth Service
Stopped BthServ Bluetooth Support Service
Stopped csmerv Compatibility Access Manager Service
Stopped CaptureService... CaptureService_12312a
Running cbassvc_12312a Clipboard User Service_12312a
Running CConnSvc Connected Devices Platform Service
Running CDPUserSvc_12312a Connected Devices Platform User Ser...
Running CertPropSvc Certificate Propagation
Running CllidSvc Client License Service (CllidSvc)
Stopped COMApp COM Application
Stopped ConsentUserServ... ConsentUI_12312a
Running ComMessaging COM Messaging
Stopped CredentialInvol... CredentialInvolvementManagerUserSvc...
Running CryptSvc Cryptographic Services
Stopped CtsService Offline Files
Running DCOMLaunch DCOM Server Process Launcher
Stopped defragsvc Defragmentation Service
Stopped DeviceAssociati... DeviceAssociationBroker_12312a
Stopped DeviceAssociati... Device Association Service
Stopped DeviceInstall Device Install Service
Stopped DeviceInstaller... DeviceInstaller_12312a
Stopped DeviceFlowUser... DeviceFlow_12312a
Stopped DeviceQueryBroker... DeviceQueryBroker_12312a
Running DllHost DllHost
Running Dmcp Dmcp Client
Stopped diagnosticshub... Microsoft (R) Diagnostics Hub Stand...
Running diagtrack Diagnostic Execution Service
Running DisplayEnhancem... Display Policy Service
Stopped DisplayEnhancem... Display Enhancement Service
Stopped DmEnrollmentSvc Device Management Enrollment Service
Stopped DmAppPushService Device Management Wireless Applicat...
Running DmCache DmCache
Running DmSvc Delivery Optimization
Stopped dmshvc Device Manager
Running DPS Diagnostic Policy Service
Stopped DpSvc Device Setup Manager
Running DpSvc Data Sharing Service
Running DuxSvc Data Usage
Stopped EapHost Extensible Authentication Protocol
Stopped EFS Encrypting File System (EFS)
Stopped embeddedmode Embedded Mode
Stopped EntAppSvc Enterprise App Management Service
Running Eventlog Windows Event Log
```

3.) szolgáltatások lekérdezése

```
Windows PowerShell
PS C:\Users\csore> Get-Alias

CommandType Name Version Source
-----
Alias & -> ForEach-Object
Alias ? -> Where-Object
Alias ac -> Add-Content
Alias asnp -> Add-PSnapin
Alias cat -> Get-Content
Alias cd -> Get-Location
Alias cat -> Get-Content
Alias chdir -> Get-Location
Alias clear -> Clear-Content
Alias clear -> Clear-Host
Alias cllv -> Clear-History
Alias cll -> Clear-Item
Alias cllp -> Clear-ItemProperty
Alias cll -> Clear-Host
Alias clv -> Clear-Variable
Alias cmn -> Connect-PSession
Alias compare -> Compare-Object
Alias copy -> Copy-Item
Alias cp -> Copy-Item
Alias cpl -> Copy-Item
Alias csp -> Copy-ItemProperty
Alias curl -> Invoke-WebRequest
Alias cvm -> Convert-Path
Alias dmp -> Disable-PSBreakpoint
Alias del -> Remove-Item
Alias diff -> Compare-Object
Alias dir -> Get-Childitem
Alias dsmn -> Disconnect-PSession
Alias emp -> Enable-PSBreakpoint
Alias echo -> Write-Output
Alias epal -> Export-Alias
Alias epst -> Export-Csv
Alias eppn -> Export-PSession
Alias erase -> Remove-Item
Alias etas -> Enter-PSession
Alias exst -> Exit-PSession
Alias fc -> Format-Custom
Alias fls -> Format-List
Alias fl -> Format-List
Alias foreach -> ForEach-Object
Alias fl -> Format-Table
Alias fw -> Format-Wide
Alias gal -> Get-Alias
Alias gbp -> Get-PSBreakpoint
Alias gc -> Get-Content
Alias gcb -> Get-Clipboard
Alias gcl -> Get-Childitem
Alias gcm -> Get-Command
Alias gcs -> Get-PSCallStack
Alias gmp -> Get-PSDrive
Alias gmv -> Get-History
Alias gl -> Get-Item
Alias gln -> Get-ComputerInfo
Alias gln -> Get-Location
Alias gl -> Get-Location
Alias gm -> Get-Module
Alias gmo -> Get-Module
Alias gp -> Get-ItemProperty
Alias gsp -> Get-Process
Alias gsv -> Get-ItemProperty
Alias group -> Group-Object
Alias gsn -> Get-PSession
Alias gsm -> Get-PSession
Alias gsv -> Get-Service
Alias gts -> Get-Item
Alias gv -> Get-Variable
Alias gwt -> Get-WebObject
```

5.) parancsok rövidített nevei

```
Windows PowerShell
alias write -> Write-Output

PS C:\Users\score> New-Alias 'process' Get-Process
PS C:\Users\score> process

Handles NPM(K) PM(K) WS(K) CPU(s) Id SI ProcessName
-----
331 28 8320 23960 0,17 6380 1 ApplicationFrameHost
140 18 2800 5384 0,552 0 smssvc
536 23 7220 26884 0,63 6784 1 browser_broker
419 7 8336 16120 0,44 1080 1 chrome
1558 58 86468 154188 0,06 2664 1 chrome
250 15 7400 18476 0,23 4600 1 chrome
306 18 16780 35500 0,63 5348 1 chrome
371 18 117852 182532 76,45 6456 1 chrome
338 17 30886 75572 3,22 7424 1 chrome
229 17 21484 37824 1,27 8424 1 chrome
247 15 14686 48020 0,31 8804 1 chrome
266 16 7284 18256 0,13 9344 1 chrome
257 15 16680 32052 0,58 9424 1 chrome
473 17 23436 63280 9,88 9572 1 chrome
294 16 27772 74032 4,84 9924 1 chrome
883 19 183756 174556 26,56 10192 1 chrome
110 17 6416 5804 0,08 6800 1 comst
205 13 6872 17768 1,80 10384 1 comst
481 16 3756 13632 1,44 6880 1 ctfmon
938 22 12796 4384 0,20 0 csrss
526 17 2524 4888 0,04 1 csrss
147 9 2224 8360 0,55 1860 1 dlhst
254 18 4640 13360 0,22 7360 1 dlhst
886 43 83392 59212 18,96 6892 1 explorer
1934 76 46224 189544 19,86 6892 1 explorer
180 7 1184 4620 0,01 916 0 fcomst
100 7 1184 4620 0,01 916 0 fcomst
38 9 5160 18880 0,00 916 0 fcomst
38 9 5160 18880 0,00 916 0 fcomst
0 0 0 0 0 0 0 fcomst
484 38 53164 27876 0,72 8 0 fcomst
1671 31 7376 17896 7,52 0 0 fcomst
0 0 0 0 0 0 0 fcomst
1823 264 26116 53828 0,69 6424 1 MicrosoftEdge
495 23 5880 22380 0,13 6804 1 MicrosoftEdge
262 13 1880 11864 0,08 6880 1 MicrosoftEdge
579 86 197816 129316 7,90 0 smssvc
275 24 53876 17280 0,08 0 smssvc
1785 38 65812 37284 7,96 0 smssvc
853 84 160116 151512 35,60 0 smssvc
624 19 138256 58984 8,256 0 smssvc
207 56 4816 8200 4,284 0 smssvc
740 38 66540 79912 1,91 10280 1 powershell
0 19 89780 42220 0,01 0 powershell
297 16 3080 28632 0,73 5576 1 RunTimeBroker
417 21 8912 25104 1,45 5756 1 RunTimeBroker
248 14 3464 18512 0,17 6540 1 RunTimeBroker
180 9 1712 7180 0,12 6712 1 SearchIndexer
3287 86 57120 56156 3,412 0 SearchIndexer
175 18 1316 7180 0,08 4832 1 SearchIndexer
1665 102 129816 88388 22,55 5816 1 SearchIndexer
414 16 4156 13224 7,92 0 SecurityHealthService
169 18 1860 8720 0,09 7456 1 SecurityHealthSystray
718 12 5280 8532 7,40 0 services
90 7 3652 6284 0,04 6348 0 SmbBroker
560 19 6652 24656 4,05 5352 1 slhst
53 3 1156 932 0,01 420 0 smss
476 22 6168 13360 2,948 0 smssvc
254 18 4816 13224 1,656 0 smssvc
473 28 38680 42132 2,100 0 smssvc
431 27 27280 55124 4,048 0 smssvc
498 38 42932 48972 7,808 0 smssvc
1818 162 41880 206024 77,2 0 smssvc
```

```
Windows PowerShell

214 17 2584 8080 3120 0 svchost
210 11 4584 7460 3128 0 svchost
389 76 15512 36492 3260 0 svchost
158 7 1436 5384 3296 0 svchost
336 17 40876 14122 3384 0 svchost
270 26 3632 12180 3312 0 svchost
130 7 1276 3206 3312 0 svchost
135 9 1424 5772 3340 0 svchost
385 19 4376 19812 3364 0 svchost
189 7 1332 4888 3628 0 svchost
163 16 1880 7272 3664 0 svchost
180 9 1436 6300 3700 0 svchost
257 18 2488 9328 3884 0 svchost
1854 113 47184 154232 3960 0 svchost
341 18 4896 15380 4020 0 svchost
388 16 2440 8820 4080 0 svchost
129 8 1532 6784 4212 0 svchost
246 13 3992 13456 4296 0 svchost
524 28 24880 45424 4472 0 svchost
372 17 5836 14636 4684 0 svchost
135 9 2816 5600 4804 0 svchost
389 15 4888 16668 0,83 5436 1 svchost
430 21 6812 22272 0,64 5584 1 svchost
288 18 3564 10876 5696 0 svchost
175 18 1864 7520 5912 0 svchost
1804 20 12084 27728 6864 0 svchost
234 31 2112 6676 7448 0 svchost
387 10352 19944 7836 0 svchost
121 7 3188 7920 10876 0 svchost
3470 8 784 1480 4 0 system
355 19 5948 16876 4880 0 taskhostw
255 38 6880 15656 0,44 5612 1 taskhostw
163 9 1824 8144 8812 0 umhvc
479 22 8728 44740 0,41 5680 1 WindowsInternal.ComposableShell.Experiences.TextInput.InputApp
164 11 1452 6192 596 0 wininit
249 13 2584 8208 600 0 winlogon
1370 67 91180 138512 24,31 9720 1 winlogon
265 12 1924 6552 920 0 winlogon

PS C:\Users\score> Get-Alias process

CommandType Name Version Source
-----
process -> Get-Process

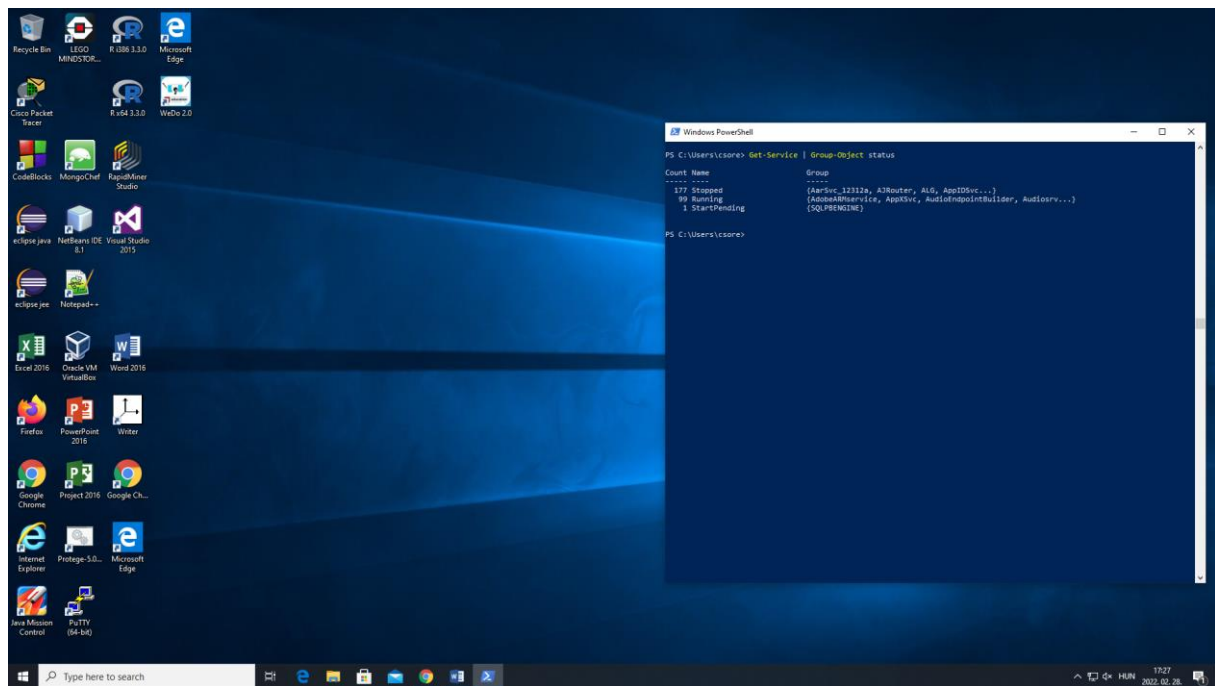
PS C:\Users\score>
```

6.) új Alias létrehozása és futtatása, majd lekérdezése

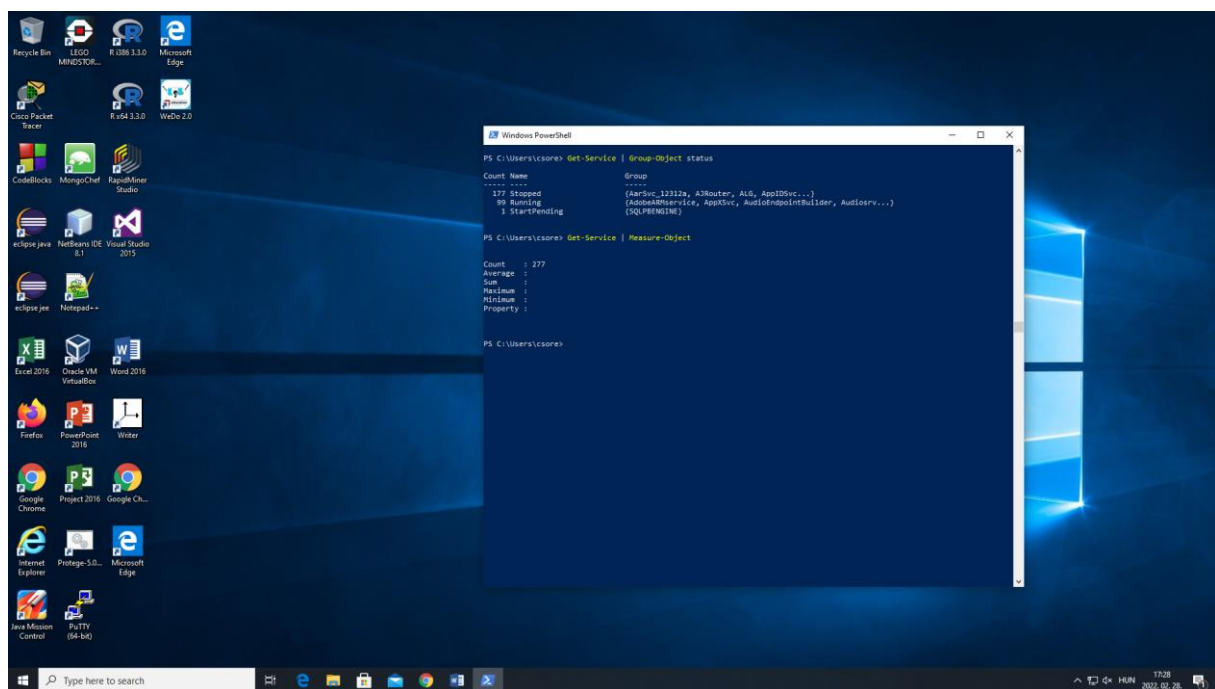
```

C:\Users\palescor\Desktop>net Service | Sort-Object
Status      Name                DisplayName
-----
Stopped     AarSvc_12312a      Agent Activation Runtime_12312a
Running     AdobeAcrdService   Adobe Acrobat Update Service
Stopped     AIORouter           AllJoyn Router Service
Stopped     AIOGateway          Application Layer Gateway Service
Stopped     AppIDSvc            Application Identity
Stopped     AppInfo             Application Information
Stopped     AppMgr             Application Management
Stopped     AppReadiness       App Readiness
Stopped     AppSvcClient        Microsoft App-V Client
Running     AppSvcHost          AppV Deployment Service (AppSvcV)
Stopped     AppSvcState         ASP.NET State Service
Stopped     AssignModemsConn... AssignedModemsManager Service
Running     AudioEndpointMsr... Windows Audio Endpoint Builder
Running     AudioSvc            Windows Audio
Stopped     AutTimeSvc          Cellular Time
Stopped     AxiInstV            ActiveX Installer (AxiInstV)
Stopped     KextVUserSvc        GameOn and Broadcast User Service...
Stopped     BDESvc             BitLocker Drive Encryption Service
Running     BFE                 Base Filtering Engine
Running     BITS                Background Intelligent Transfer Ser...
Running     BluetoothSupport... Bluetooth User Support Service_12312a
Running     BrokerInfraStru... Background Tasks Infrastructure Ser...
Running     Browser             Computer Browser
Stopped     FMServer            Bluetooth Audio Gateway Service
Stopped     HtWPService         HTTP Service
Stopped     HtWPService         Bluetooth Support Service
Stopped     CamVLC              Camellia Access Manager Service
Stopped     CaptureService...   CaptureService_12312a
Running     CbOSvc              Clipboard User Service_12312a
Running     CDSUserSvc_12312a   Connected Devices Platform User Ser...
Running     CDPWPService        Certificate Propagation
Running     CIPSvc              Client License Service (CIPSvc)
Running     COMSysApp           COM System Application
Stopped     ConsentUserServ...   ConsentUI_12312a
Running     CoreMessaging...    CoreMessaging
Running     CredentialManag...   CredentialManagementManagerUserSvc...
Running     CryptSvc            Cryptographic Services
Stopped     CService            Offline Files
Running     DCOMLaunch          DCOM Server Process Launcher
Stopped     DefragSvc           Defragment
Stopped     DeviceAssocIati... DeviceAssociationBroker_12312a
Stopped     DeviceAssocIati... Device Association Service
Stopped     DeviceInstall       Device Install Service
Stopped     DeviceUserSvc       DeviceUser_12312a
Stopped     DeviceWlanMgr       DeviceWlan_12312a
Stopped     DevQueryBroker      DevQuery Background Discovery Broker
Running     DMCP                DMCP Client
Stopped     DiagnosticHub...    Microsoft (R) Diagnostic Hub Stand...
Stopped     DiagSvc             Diagnostic Eventing Service
Running     DiagTrac            Connected User Experiences and Tele...
Running     DisplayEnhance...    Display Enhancement Service
Stopped     EnrollmentEnroll... Device Management Enrollment Service
Stopped     WmAppPushService    Device Management Wireless Applicat...
Running     DnsCache            DNS Client
Running     DnsVc               Delivery Optimization
Stopped     DotNetSvc           Wired AutoConfig
Running     DPS                 Diagnostic Policy Service
Stopped     DsSvc               Device Setup Manager
Stopped     DsSvc               Data Sharing Service
Running     DsSvc               Data Usage
Stopped     EAPHost             Extensible Authentication Protocol
Stopped     EFS                 Encrypting File System (EFS)
Stopped     EmbeddedMode        Embedded Mode
Stopped     EntAppSvc            Enterprise App Management Service
Running     EventLog             Windows Event Log

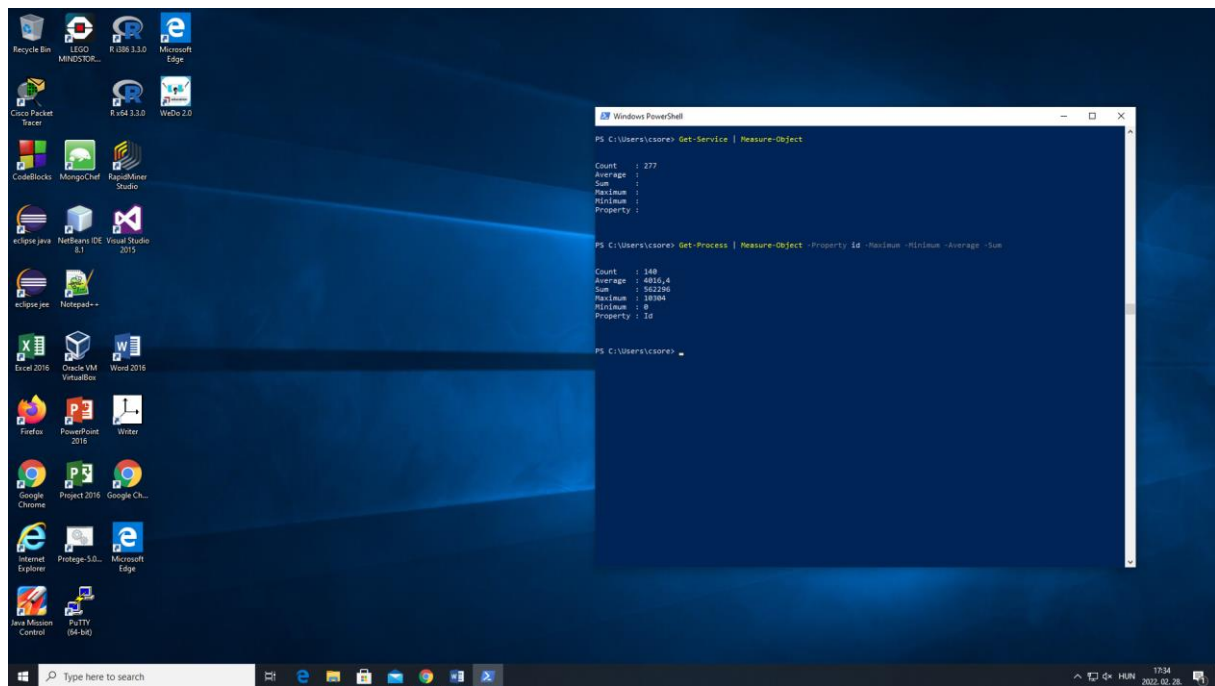
```



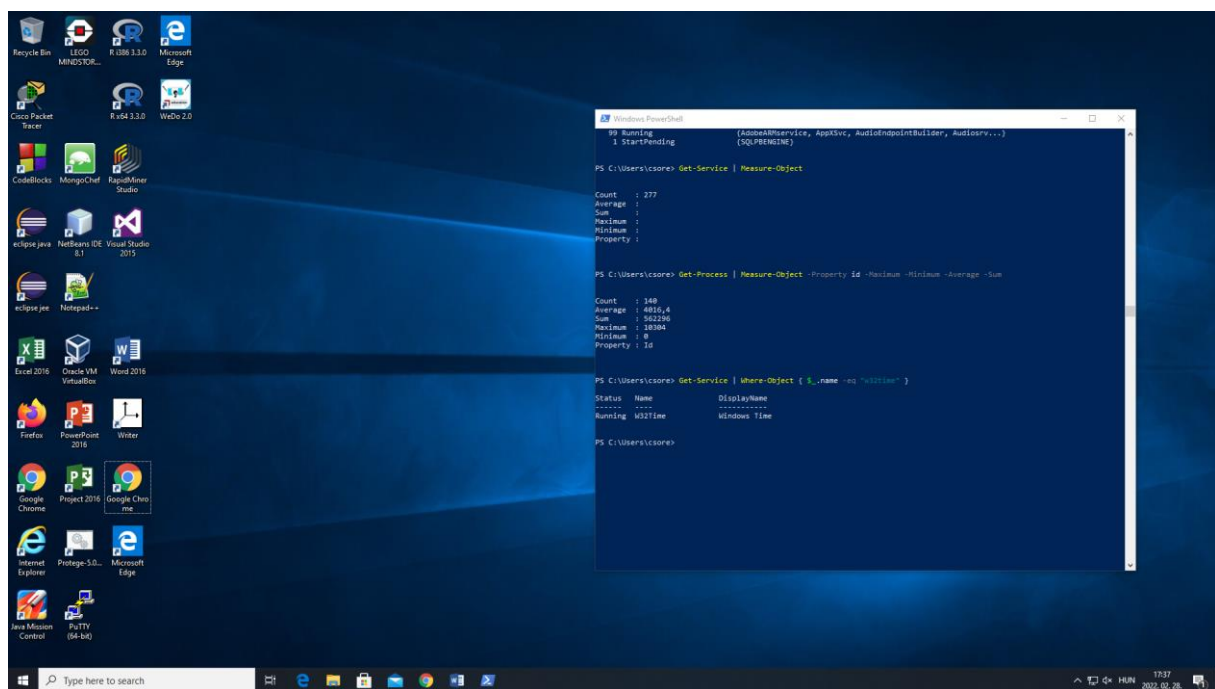
10.) objektumok állapot szerinti csoportosítása



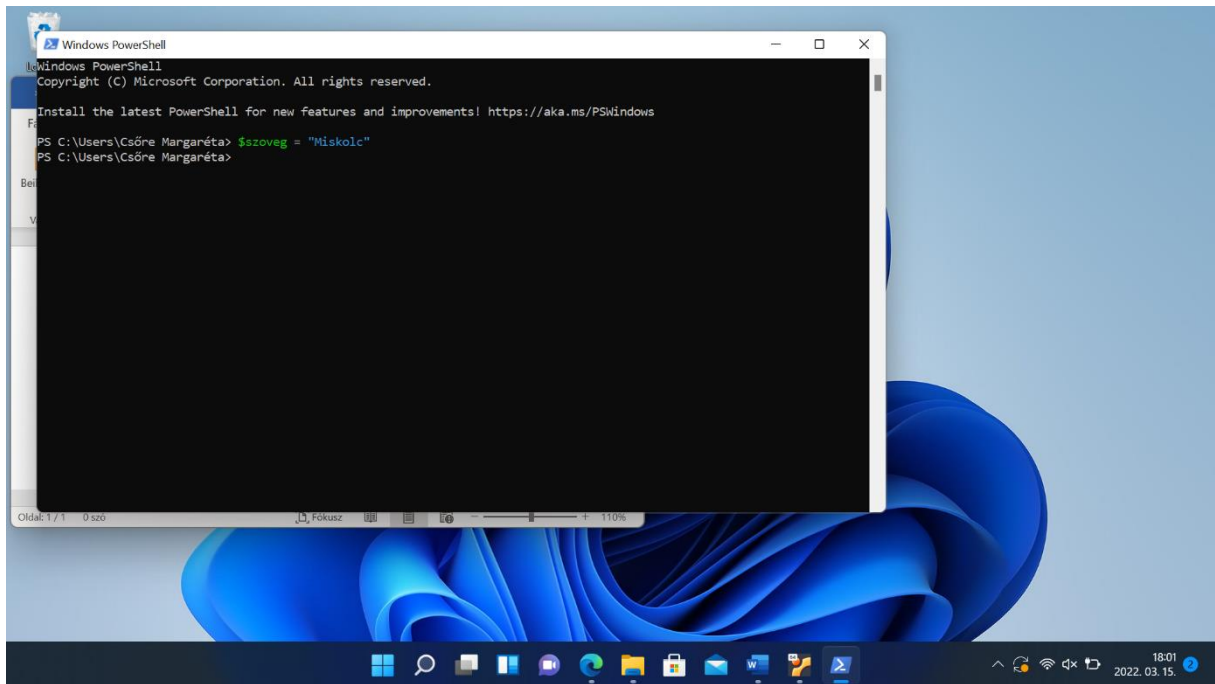
11.) objektumok száma



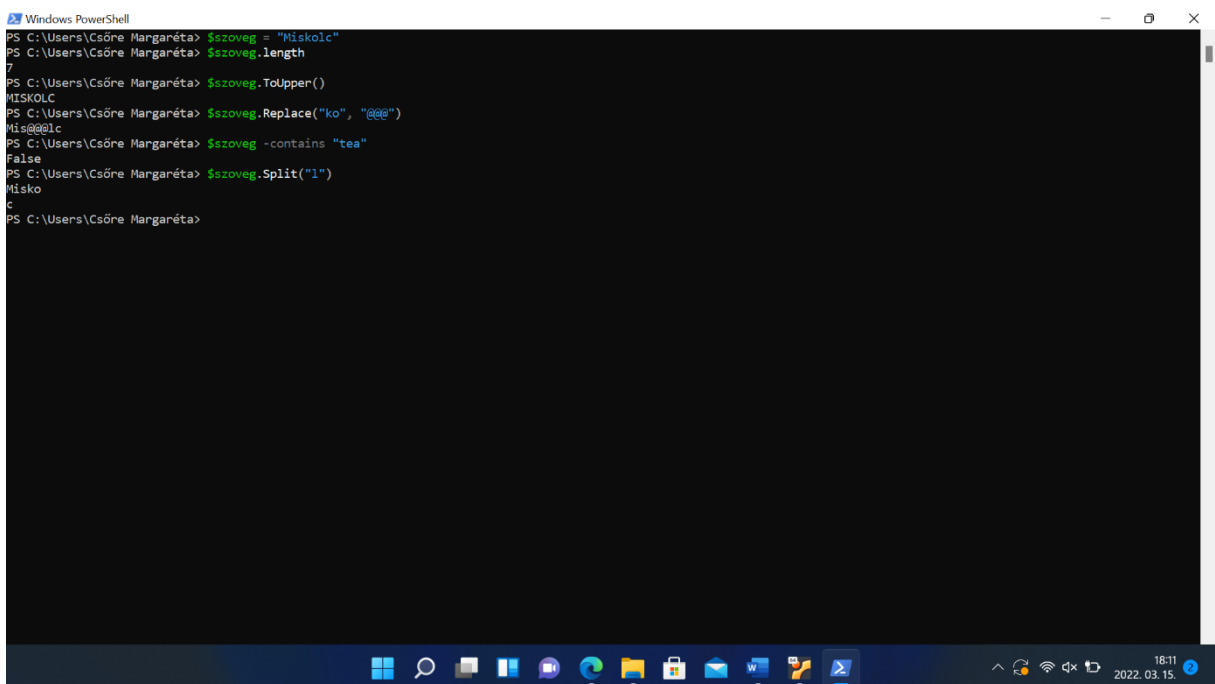
12.) Objektumok száma max, min, avg, sum szerint



13.) windows idő



14.) szoveg nevű változót, melynek értéke: Miskolc



15.) length, ToUpper, Replace, Contains, Split műveletek