```
PS C:\Users\290398> $PSVT
PS C:\Users\290398> $PSVersionTable

Name                           Value
----                           -----
PSVersion                      5.1.26100.2161
PSEdition                      Desktop
PSCompatibleVersions           {1.0, 2.0, 3.0, 4.0...}
BuildVersion                   10.0.26100.2161
CLRVersion                     4.0.30319.42000
WSManStackVersion              3.0
PSRemotingProtocolVersion      2.3
SerializationVersion           1.1.0.1


PS C:\Users\290398> Get-Host


Name             : ConsoleHost
Version          : 5.1.26100.2161
InstanceId       : a1b39836-456c-4d52-a67e-d9de477fd9da
UI               : System.Management.Automation.Internal.Host.InternalHostUserInterface
CurrentCulture   : en-IN
CurrentUICulture : en-US
PrivateData      : Microsoft.PowerShell.ConsoleHost+ConsoleColorProxy
DebuggerEnabled  : True
IsRunspacePushed : False
Runspace         : System.Management.Automation.Runspaces.LocalRunspace



PS C:\Users\290398> $env
PS C:\Users\290398> $env:Computername
```
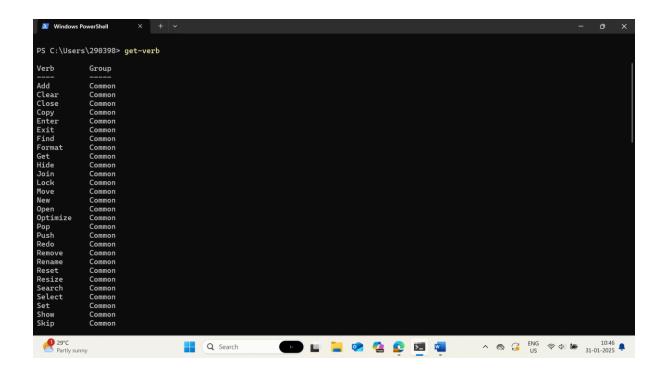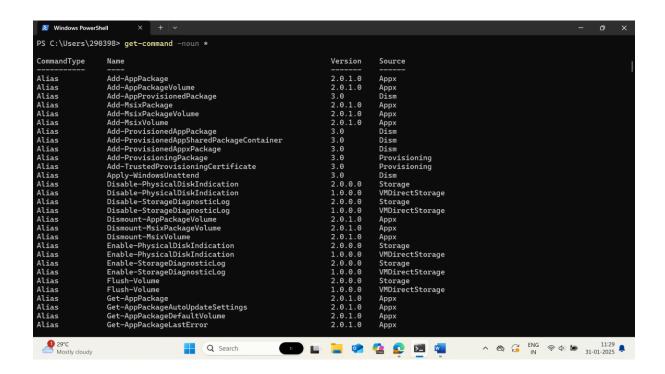
```
PS C:\Users\290398> $env
PS C:\Users\290398> $env:Computername
G6DR0F3
PS C:\Users\290398> $env:username
290398
PS C:\Users\290398> $env:userdomain
USTR
PS C:\Users\290398> $env:userprofile
C:\Users\290398
PS C:\Users\290398> $env:alluserprofile
PS C:\Users\290398> $env:comspec
C:\WINDOWS\system32\cmd.exe
PS C:\Users\290398> $env:homepath
\Users\290398
PS C:\Users\290398> $env:homedrive
C:
PS C:\Users\290398> $env:programfiles
C:\Program Files
PS C:\Users\290398>
```

Get-verb

```
PS C:\Users\290398> get-verb

Verb        Group
----        -----
Add         Common
Clear       Common
Close       Common
Copy        Common
Enter       Common
Exit        Common
Find        Common
Format      Common
Get         Common
Hide        Common
Join        Common
Lock        Common
Move        Common
New         Common
Open        Common
Optimize    Common
Pop         Common
Push        Common
Redo        Common
Remove      Common
Rename      Common
Reset       Common
Resize      Common
Search      Common
Select      Common
Set         Common
Show        Common
Skip        Common
```

Command noun


```
PS C:\Users\290398> get-command -noun *

CommandType     Name                                        Version    Source
-----------     ----                                        -------    ------
Alias           Add-AppPackage                              2.0.1.0    Appx
Alias           Add-AppPackageVolume                        2.0.1.0    Appx
Alias           Add-AppProvisionedPackage                   3.0        Dism
Alias           Add-MsixPackage                             2.0.1.0    Appx
Alias           Add-MsixPackageVolume                       2.0.1.0    Appx
Alias           Add-MsixVolume                              2.0.1.0    Appx
Alias           Add-ProvisionedAppPackage                   3.0        Dism
Alias           Add-ProvisionedAppSharedPackageContainer    3.0        Dism
Alias           Add-ProvisionedAppxPackage                  3.0        Dism
Alias           Add-ProvisioningPackage                     3.0        Provisioning
Alias           Add-TrustedProvisioningCertificate          3.0        Provisioning
Alias           Apply-WindowsUnattend                       3.0        Dism
Alias           Disable-PhysicalDiskIndication              2.0.0.0    Storage
Alias           Disable-PhysicalDiskIndication              1.0.0.0    VMDirectStorage
Alias           Disable-StorageDiagnosticLog                2.0.0.0    Storage
Alias           Disable-StorageDiagnosticLog                1.0.0.0    VMDirectStorage
Alias           Dismount-AppPackageVolume                   2.0.1.0    Appx
Alias           Dismount-MsixPackageVolume                  2.0.1.0    Appx
Alias           Dismount-MsixVolume                         2.0.1.0    Appx
Alias           Enable-PhysicalDiskIndication               2.0.0.0    Storage
Alias           Enable-PhysicalDiskIndication               1.0.0.0    VMDirectStorage
Alias           Enable-StorageDiagnosticLog                 2.0.0.0    Storage
Alias           Enable-StorageDiagnosticLog                 1.0.0.0    VMDirectStorage
Alias           Flush-Volume                                2.0.0.0    Storage
Alias           Flush-Volume                                1.0.0.0    VMDirectStorage
Alias           Get-AppPackage                              2.0.1.0    Appx
Alias           Get-AppPackageAutoUpdateSettings            2.0.1.0    Appx
Alias           Get-AppPackageDefaultVolume                 2.0.1.0    Appx
Alias           Get-AppPackageLastError                     2.0.1.0    Appx
```

```
Function       Update-ScriptFileInfo                          1.0.0.1    PowerShellGet
Function       Update-SmbMultichannelConnection               2.0.0.0    SmbShare
Function       Update-StorageBusCache                         1.0.0.0    StorageBusCache
Function       Update-StorageFirmware                         2.0.0.0    Storage
Function       Update-StoragePool                             2.0.0.0    Storage                              Function   Update
      Update-StorageProviderCache     Storage          2.0.0.0                                     Cmdlet          Update
-DscConfiguration                     1.1        PSDesiredStateConfiguration                  Cmdlet        Update-FormatData
                          3.1.0.0    Microsoft.PowerShell.Utility            Cmdlet        Update-Help
              3.0.0.0   LAPS    Microsoft.PowerShell.Core               Cmdlet        Update-LapsADSchema
      1.0.0.0   LAPS
Cmdlet         Update-List                                    3.1.0.0    Microsoft.PowerShell.Utility
Cmdlet         Update-TypeData                                3.1.0.0    Microsoft.PowerShell.Utility
Cmdlet         Update-UevTemplate                             2.1.639.0  UEV
Cmdlet         Update-WIMBootEntry                            3.0        Dism


PS C:\Users\290398> get-help -name write-warning -examples

NAME
    Write-Warning

ALIASES
    None

REMARKS
    Get-Help cannot find the Help files for this cmdlet on this computer. It is displaying only partial help.
        -- To download and install Help files for the module that includes this cmdlet, use Update-Help.
        -- To view the Help topic for this cmdlet online, type: "Get-Help Write-Warning -Online" or
           go to https://go.microsoft.com/fwlink/?LinkID=113430.


PS C:\Users\290398> update-help
update-help : Failed to update Help for the module(s) :
'AppBackgroundTask, AppLocker, AppvClient, Appx, AssignedAccess, BitLocker, BitsTransfer, BranchCache, CimCmdlets, ConfigCI,
```

```
PS C:\Users\290398> Get-Help Write-Warning -Online
PS C:\Users\290398> get-process

Handles  NPM(K)    PM(K)      WS(K)     CPU(s)     Id  SI ProcessName
-------  ------    -----      -----     ------     --  -- -----------
    192      14     4476      10500                5808   0 AggregatorHost
    224      18    22788      39812      0.84    12752   6 ai
    151      13     2296      10132     45.03     9576   6 ApMsgFwd
    121      11     1600       7360      0.17     6140   6 ApntEx
    312      19     3784      20156     13.22    10520   6 Apoint
    382      22    14172      43060      0.44    17780   6 ApplicationFrameHost
     80       8     1184       5208      0.13    18136   6 ApRemote
    136      10     1844       2772                5104   0 armsvc
    333      30    19016       2296      0.36    10244   6 backgroundTaskHost
    149      11     2976      10980      0.03    19016   6 cloudmeteringhost
     57       7     2212       4988      0.03    13912   6 cmd
    119      12     2084       9944      0.08    16372   6 conhost
    140      11     1816       9140      0.13    19084   6 conhost
    118      12     1952       8756      0.16    19836   6 conhost
    909      84    21660      79760      9.00    21692   6 CrossDeviceService
     58       8     1900       2508                1236   0 CSFalconContainer
     58       9    18660      13472                1372   0 CSFalconContainer
    156      14    18012       7948                1704   0 CSFalconContainer
     90      15    72712      44416                6696   0 CSFalconContainer
     58      10   112880      29176                7660   0 CSFalconContainer
     58      10   108352      32868                7960   0 CSFalconContainer
     58       9    12448       8064                7988   0 CSFalconContainer
     58       7     2484       3012                8832   0 CSFalconContainer
    927      58   173392      99184                4168   0 CSFalconService
    767      28     2276       3524                1036   0 csrss
    748      26     2756       7908               20740   6 csrss
    159      13     2912      10984      0.13    18084   6 CsSystemTray_7.20.19011.0
    545      23     9652      35440     17.64    18936   6 ctfmon
    226      14    15880       5000                4036   0 DellFFDPWmiService
    589      46    31716      52800      3.73    17788   6 Dia Notifications
    504      54    14912      27956      2.42     3392   6 dllhost
```

Execution policy

```
PS C:\Users\290398>
PS C:\Users\290398> get-executionpolicy
Restricted
PS C:\Users\290398> set-executionpolicy -executionpolicy "unrestricted"
set-executionpolicy : Access to the registry key 'HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\PowerShell\1\ShellIds\Microsoft.PowerShell' is denied.
To change the execution policy for the default (LocalMachine) scope, start Windows PowerShell with the "Run as administrator" option. To
change the execution policy for the current user, run "Set-ExecutionPolicy -Scope CurrentUser".
At line:1 char:1
+ set-executionpolicy -executionpolicy "unrestricted"
+ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
    + CategoryInfo          : PermissionDenied: (:) [Set-ExecutionPolicy], UnauthorizedAccessException
    + FullyQualifiedErrorId : System.UnauthorizedAccessException,Microsoft.PowerShell.Commands.SetExecutionPolicyCommand
PS C:\Users\290398> writ-host "Hello world"
```

To print something

```
PS C:\Users\290398> write-host "Hello worls"
Hello worls
PS C:\Users\290398>
```

```
PS C:\Users\290398> $myvar.gettype()

IsPublic IsSerial Name                                    BaseType
-------- -------- ----                                    --------
True     True     Int32                                   System.ValueType
```

```
+ $myvar | getmember-
+          ~~~~~~~~~~~
    + CategoryInfo          : ObjectNotFound: (getmember-:String) [], CommandNotFoundException
    + FullyQualifiedErrorId : CommandNotFoundException

PS C:\Users\290398> $myvar | get-member


   TypeName: System.Int32

Name        MemberType Definition
----        ---------- ----------
CompareTo   Method     int CompareTo(System.Object value), int CompareTo(int value), int IComparable.CompareTo(System.Object obj), int IComp...
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 ToString(...
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\290398>
```

Predefine the data type

```
PS C:\Users\290398> [system.int32] $myint = "788"
PS C:\Users\290398> $myva
PS C:\Users\290398> $myint
788
PS C:\Users\290398> $myint.gettype()

IsPublic IsSerial Name                                     BaseType
-------- -------- ----                                     --------
True     True     Int32                                    System.ValueType


PS C:\Users\290398> [system.string] $myint = 788
PS C:\Users\290398> $myint
788
PS C:\Users\290398> $myint.gettype()

IsPublic IsSerial Name                                     BaseType
-------- -------- ----                                     --------
True     True     String                                   System.Object


PS C:\Users\290398>
```

```
PS C:\Users\290398> get-childitem | where-object { $_.name -Like "*.vscode" }


    Directory: C:\Users\290398


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----         29-01-2025     09:53                .vscode


PS C:\Users\290398> get-childitem | where-object { $_.name -Like "*.ssh" }


    Directory: C:\Users\290398


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----         14-01-2025     10:16                .ssh


PS C:\Users\290398> |
```

Clear a value

By setting value clear

```
PS C:\Users\290398> $myvar
4
PS C:\Users\290398> $myvar.gettype()

IsPublic IsSerial Name                                    BaseType
-------- -------- ----                                    --------
True     True     Int32                                   System.ValueType

PS C:\Users\290398> clear-variable -name my_int
clear-variable : Cannot find a variable with the name 'my_int'.
At line:1 char:1
+ clear-variable -name my_int
+ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~
    + CategoryInfo          : ObjectNotFound: (my_int:String) [Clear-Variable], ItemNotFoundException
    + FullyQualifiedErrorId : VariableNotFound,Microsoft.PowerShell.Commands.ClearVariableCommand

PS C:\Users\290398> clear-variable -name myvar
PS C:\Users\290398> $myvar
0
PS C:\Users\290398> $myvar -eq $null
False
PS C:\Users\290398> $str1="tyu kk"
PS C:\Users\290398> $str1
tyu kk
PS C:\Users\290398> clear-variable -name str1
PS C:\Users\290398> $str1
PS C:\Users\290398> $str1 -eq $null
True
PS C:\Users\290398>
```

Replacing

```
PS C:\Users\290398> $str1="erstgyh wdfgh."
PS C:\Users\290398> $str1.replace(".","1")
erstgyh wdfgh1
PS C:\Users\290398> $str1 -replace(".","1")
11111111111111
PS C:\Users\290398> $str1="erstgyh wdfgh."
PS C:\Users\290398> $str1 -replace(".","")

PS C:\Users\290398> $str1 -replace(".","1")
11111111111111
PS C:\Users\290398> $str1="erstgyh wdfgh."
PS C:\Users\290398> $str1 -replace[regex]::escape(".") "1"
At line:1 char:36
+ $str1 -replace[regex]::escape(".") "1"
+                                    ~~~
Unexpected token '"1"' in expression or statement.
    + CategoryInfo          : ParserError: (:) [], ParentContainsErrorRecordException
    + FullyQualifiedErrorId : UnexpectedToken

PS C:\Users\290398> $str1 -replace[regex]::escape("."), "1"
erstgyh wdfgh1
PS C:\Users\290398> $str1 -replace[regex]::escape("1"), "1"
erstgyh wdfgh.
PS C:\Users\290398> $str1 -replace[regex]::escape("1"), "hh"
erstgyh wdfgh.
PS C:\Users\290398> $str1 -replace[regex]::escape("."), "hh"
```

This also similar put backslash

```
    + FullyQualifiedErrorId : UnexpectedToken

PS C:\Users\290398> $str1 -replace("\." ,"bye" )
erstgyh wdfghbye
PS C:\Users\290398>
```