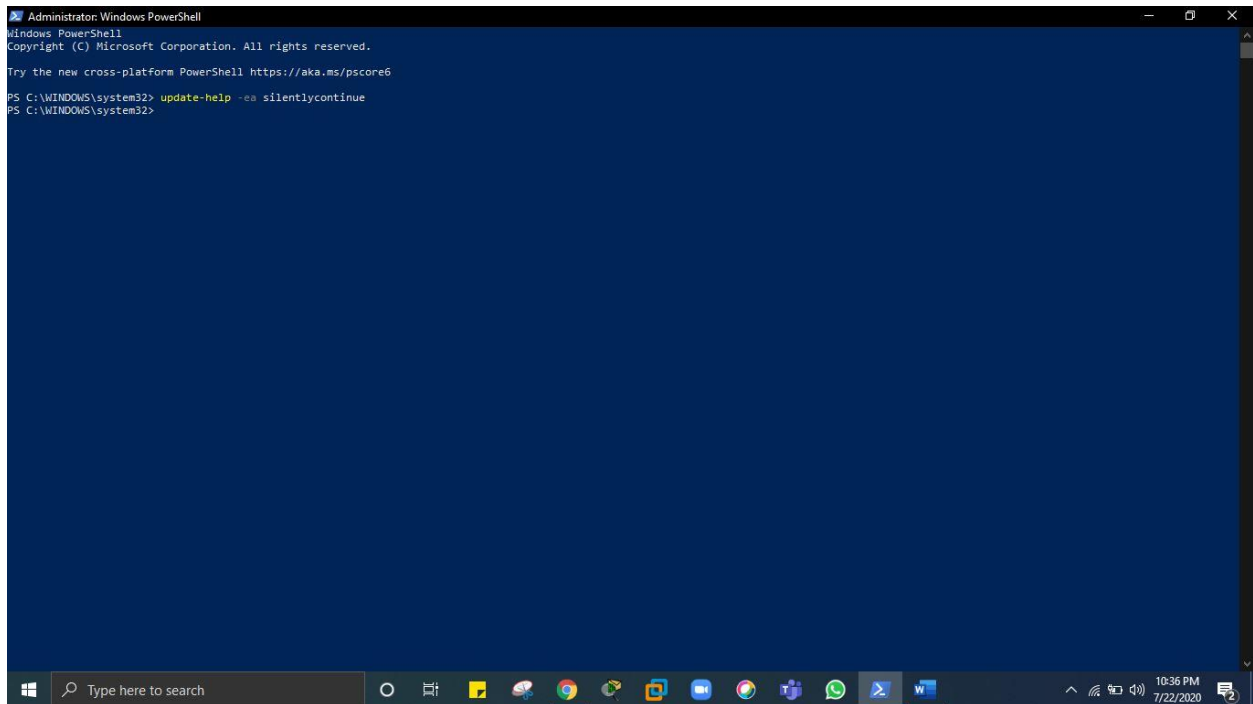# POWERSHELL LAB 01

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STUDENT NUMBER: 200418778

CLASS SCHEDULE: THURSDAY 10 AM

PROFESSOR: DENNIS SIMPHSON

Screenshot 01 shows the successful complete installation of help pages in my system. Here I can use the Get-Help cmdlet to view the new help files immediately.

Screenshot 02 here the Test-Path cmdlet determines whether all elements of the path exist. It returns $True if all elements exist and $False if any are missing. For me it shows $True which means path exist and its up and running respectively.

Then I create a profile file which adds my scripts folder to my command path.

After that I try to run helloworld.ps1 script but it was not able to give me output. Therefore, I set up execution policy followed by selecting option "a". finally, it displayed/shows the desired output.

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\WINDOWS\system32> update-help -ea silentlycontinue
PS C:\WINDOWS\system32> test-path $profile
True
PS C:\WINDOWS\system32> $env:path = "env:path;C:\Users\madan\Documents\GitHub\COMP2101\PowerShell"
PS C:\WINDOWS\system32> $env:path
env:path;C:\Users\madan\Documents\GitHub\COMP2101\PowerShell
PS C:\WINDOWS\system32> hellowworld.ps1
hellowworld.ps1 : The term 'hellowworld.ps1' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the name, or if a path was included,
verify that the path is correct and try again.
At line:1 char:1
+ hellowworld.ps1
+ ~~~~~~~~~~~~~~~
    + CategoryInfo          : ObjectNotFound: (hellowworld.ps1:String) [], CommandNotFoundException
    + FullyQualifiedErrorId : CommandNotFoundException

PS C:\WINDOWS\system32> set-executionpolicy remote

Execution Policy Change
The execution policy helps protect you from scripts that you do not trust. Changing the execution policy might expose you to the security risks described in the about_Execution_Policies help
topic at https://go.microsoft.com/fwlink/?LinkID=135170. Do you want to change the execution policy?
[Y] Yes  [A] Yes to All  [N] No  [L] No to All  [S] Suspend  [?] Help (default is "N"): a
PS C:\WINDOWS\system32> hellowworld.ps1
hellowworld.ps1 : The term 'hellowworld.ps1' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the name, or if a path was included,
verify that the path is correct and try again.
At line:1 char:1
+ hellowworld.ps1
+ ~~~~~~~~~~~~~~~
    + CategoryInfo          : ObjectNotFound: (hellowworld.ps1:String) [], CommandNotFoundException
    + FullyQualifiedErrorId : CommandNotFoundException


PS C:\WINDOWS\system32>
```

Type here to search   10:47 PM 7/22/2020

```
env:path;C:\Users\madan\Documents\GitHub\COMP2101\PowerShell
PS C:\WINDOWS\system32> hellowworld.ps1
hellowworld.ps1 : The term 'hellowworld.ps1' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the name, or if a path was included,
verify that the path is correct and try again.
At line:1 char:1
+ hellowworld.ps1
+ ~~~~~~~~~~~~~~~
    + CategoryInfo          : ObjectNotFound: (hellowworld.ps1:String) [], CommandNotFoundException
    + FullyQualifiedErrorId : CommandNotFoundException

PS C:\WINDOWS\system32> set-executionpolicy remote

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[Y] Yes  [A] Yes to All  [N] No  [L] No to All  [S] Suspend  [?] Help (default is "N"): a
PS C:\WINDOWS\system32> hellowworld.ps1
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At line:1 char:1
+ hellowworld.ps1
+ ~~~~~~~~~~~~~~~
    + CategoryInfo          : ObjectNotFound: (hellowworld.ps1:String) [], CommandNotFoundException
    + FullyQualifiedErrorId : CommandNotFoundException

PS C:\WINDOWS\system32> hellowworld.ps1
hellowworld.ps1 : The term 'hellowworld.ps1' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the name, or if a path was included,
verify that the path is correct and try again.
At line:1 char:1
+ hellowworld.ps1
+ ~~~~~~~~~~~~~~~
    + CategoryInfo          : ObjectNotFound: (hellowworld.ps1:String) [], CommandNotFoundException
    + FullyQualifiedErrorId : CommandNotFoundException

PS C:\WINDOWS\system32> helloworld.ps1
helloworld.ps1 : The term 'helloworld.ps1' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the name, or if a path was included,
verify that the path is correct and try again.
At line:1 char:1
+ helloworld.ps1
+ ~~~~~~~~~~~~~~
    + CategoryInfo          : ObjectNotFound: (helloworld.ps1:String) [], CommandNotFoundException
    + FullyQualifiedErrorId : CommandNotFoundException

PS C:\WINDOWS\system32> helloworld.ps1
hello World
PS C:\WINDOWS\system32>
```

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In this screenshots I run help get-date command in ise mode. Here Get-Date cmdlet in PowerShell is used to get the Date and Time of the System.

Then I run a get-date command to show the date with the data set to my birthdate as 2000 march 07.

File   Edit   View   Tools   Debug   Add-ons   Help

Script

Commands ✕

```
PS C:\WINDOWS\system32> help get-date

NAME
    Get-Date

SYNOPSIS
    Gets the current date and time.


SYNTAX
    Get-Date [[-Date] <DateTime>] [-Day <Int32>] [-DisplayHint {Date | Time | DateTime}] [-Format <String>] [-Hour <Int32>]
    [-Millisecond <Int32>] [-Minute <Int32>] [-Month <Int32>] [-Second <Int32>] [-Year <Int32>] [<CommonParameters>]

    Get-Date [[-Date] <DateTime>] [-Day <Int32>] [-DisplayHint {Date | Time | DateTime}] [-Hour <Int32>] [-Millisecond <Int32>]
    [-Minute <Int32>] [-Month <Int32>] [-Second <Int32>] [-UFormat <String>] [-Year <Int32>] [<CommonParameters>]


DESCRIPTION
    The `Get-Date` cmdlet gets a DateTime object that represents the current date or a date that you specify. `Get-Date` can format
    the date and time in several .NET and UNIX formats. You can use `Get-Date` to generate a date or time character string, and then
    send the string to other cmdlets or programs.

    `Get-Date` uses the computer's culture settings to determine how the output is formatted. To view your computer's settings, use
    `(Get-Culture).DateTimeFormat`.


RELATED LINKS
    Online Version:
    https://docs.microsoft.com/powershell/module/microsoft.powershell.utility/get-date?view=powershell-5.1&WT.mc_id=ps-gethelp
    ForEach-Object
    Get-Culture
    Get-Member
    New-Item
    New-TimeSpan
    Set-Date


REMARKS
    To see the examples, type: "get-help Get-Date -examples".
    For more information, type: "get-help Get-Date -detailed".
    For technical information, type: "get-help Get-Date -full".
    For online help, type: "get-help Get-Date -online"
```

Modules: EventTracingManagement   Refresh

Name:

Add-EtwTraceProvider
Flush-EtwTraceSession
Get-AutologgerConfig
Get-EtwTraceProvider
Get-EtwTraceSession
New-AutologgerConfig
New-EtwTraceSession
Remove-AutologgerConfig
Remove-EtwTraceProvider
Save-EtwTraceSession
Send-EtwTraceSession
Set-EtwTraceProvider
Start-AutologgerConfig
Start-EtwTraceSession
Stop-EtwTraceSession
Update-AutologgerConfig
Update-EtwTraceSession

Run   Insert   Copy

Completed   Ln 45 Col 25   100%

10:57 PM
7/22/2020

File   Edit   View   Tools   Debug   Add-ons   Help

Script

Commands ✕

```
    The `Get-Date` cmdlet gets a DateTime object that represents the current date or a date that you specify. `Get-Date` can format
    the date and time in several .NET and UNIX formats. You can use `Get-Date` to generate a date or time character string, and then
    send the string to other cmdlets or programs.

    `Get-Date` uses the computer's culture settings to determine how the output is formatted. To view your computer's settings, use
    `(Get-Culture).DateTimeFormat`.


RELATED LINKS
    Online Version:
    https://docs.microsoft.com/powershell/module/microsoft.powershell.utility/get-date?view=powershell-5.1&WT.mc_id=ps-gethelp
    ForEach-Object
    Get-Culture
    Get-Member
    New-Item
    New-TimeSpan
    Set-Date

REMARKS
    To see the examples, type: "get-help Get-Date -examples".
    For more information, type: "get-help Get-Date -detailed".
    For technical information, type: "get-help Get-Date -full".
    For online help, type: "get-help Get-Date -online"


PS C:\WINDOWS\system32> get-date -date 2000-03-07

Tuesday, March 7, 2000 12:00:00 AM


PS C:\WINDOWS\system32> |
```
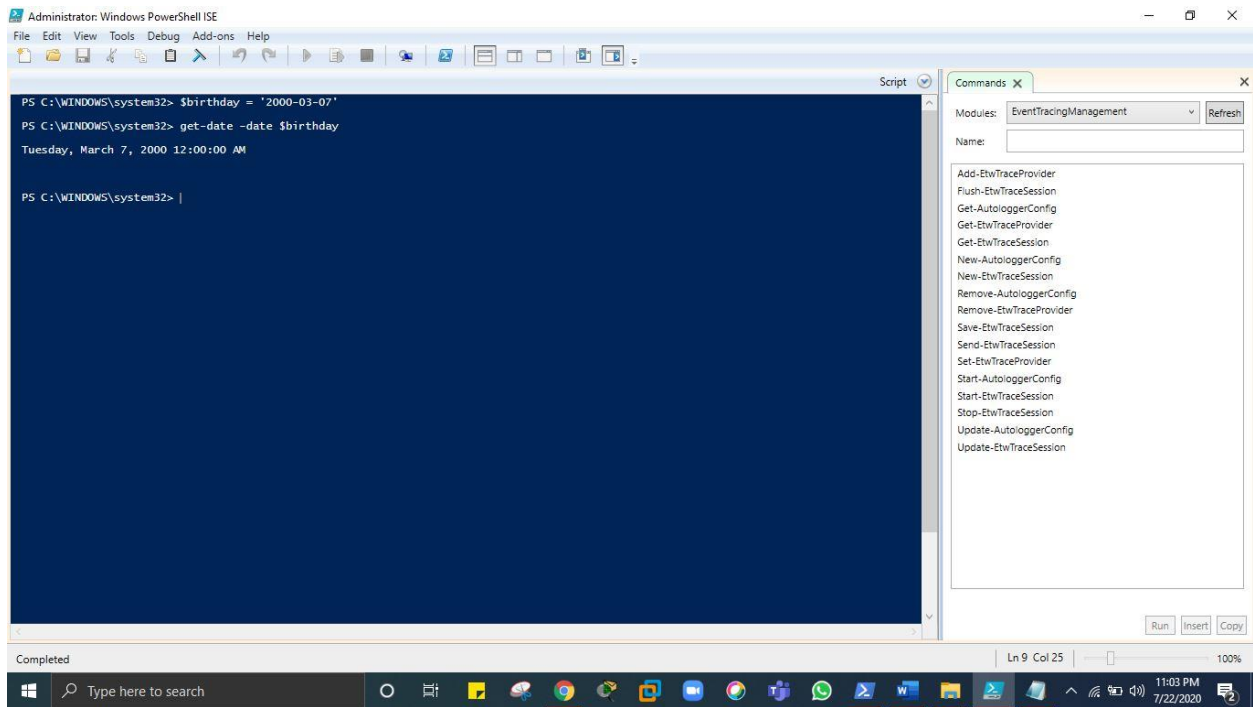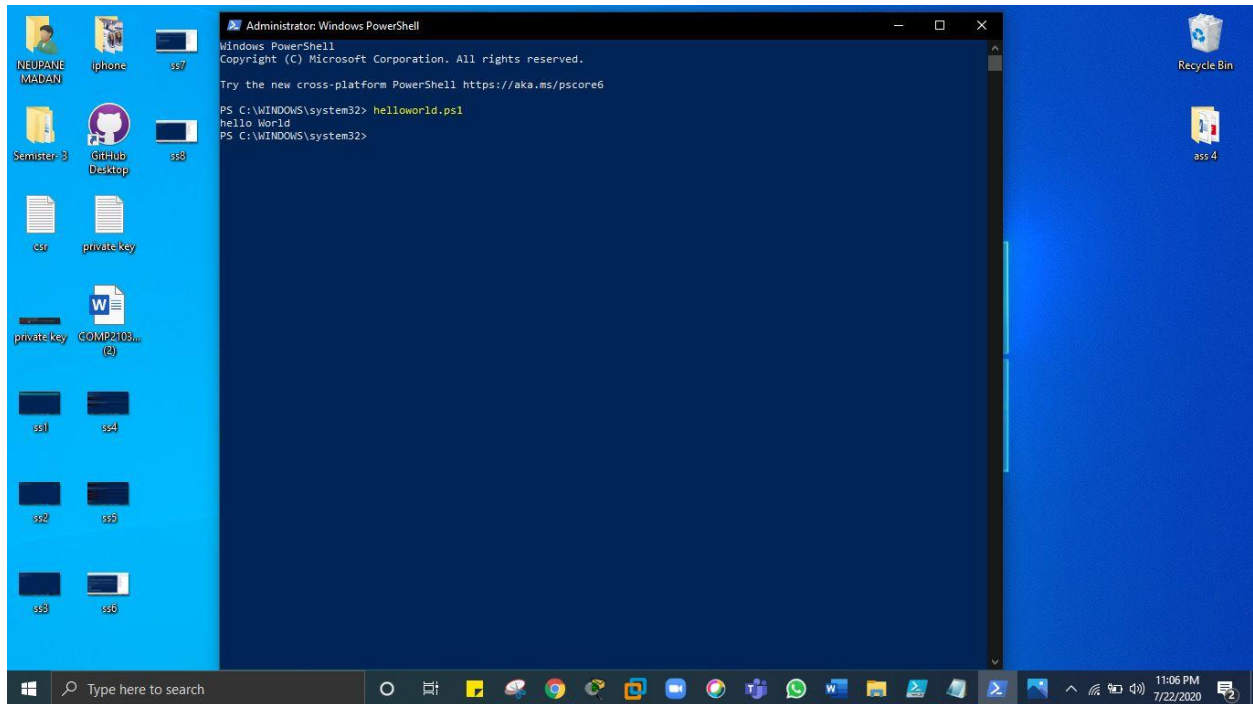
Modules: EventTracingManagement   Refresh

Name:

Add-EtwTraceProvider
Flush-EtwTraceSession
Get-AutologgerConfig
Get-EtwTraceProvider
Get-EtwTraceSession
New-AutologgerConfig
New-EtwTraceSession
Remove-AutologgerConfig
Remove-EtwTraceProvider
Save-EtwTraceSession
Send-EtwTraceSession
Set-EtwTraceProvider
Start-AutologgerConfig
Start-EtwTraceSession
Stop-EtwTraceSession
Update-AutologgerConfig
Update-EtwTraceSession

Run   Insert   Copy

Completed   Ln 51 Col 25   100%

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Finally, After running all the steps I was successfully able to verify and run my hello world script without stipulating the path to the script in a new PowerShell window.

The end of lab 01.