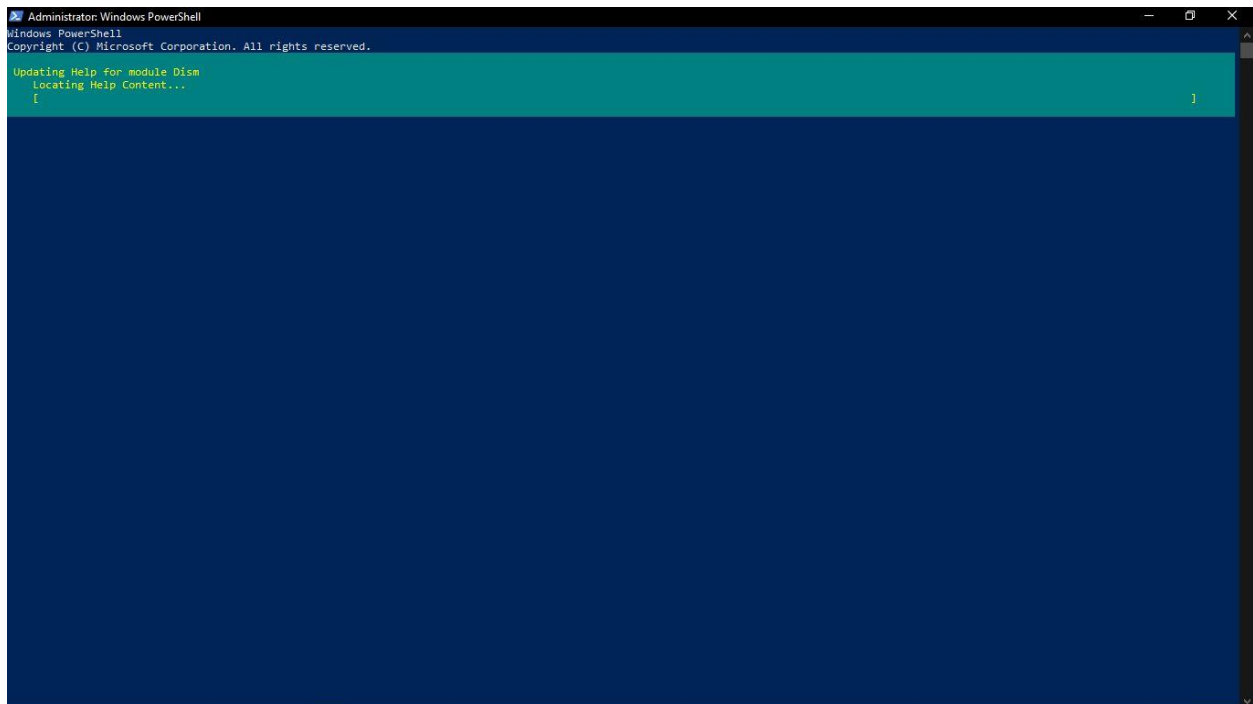


Powershell Lab 1:

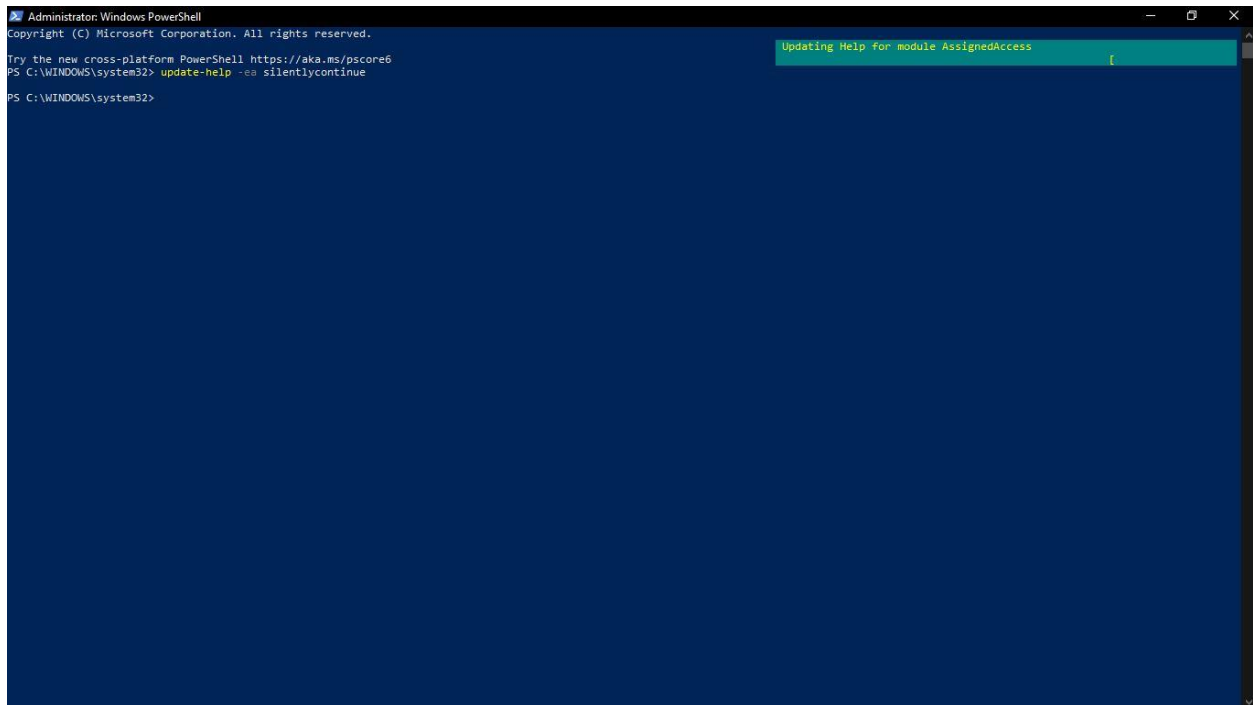
200420164, Pushpa Raj Sapkota

Professor: Dennis Simpson.

1. The first command; the update-help command is run to install the complete help pages on the PC.



2. The Command is successfully installed. Now I can be familiar with different help commands by using the Get-Help cmdlet.



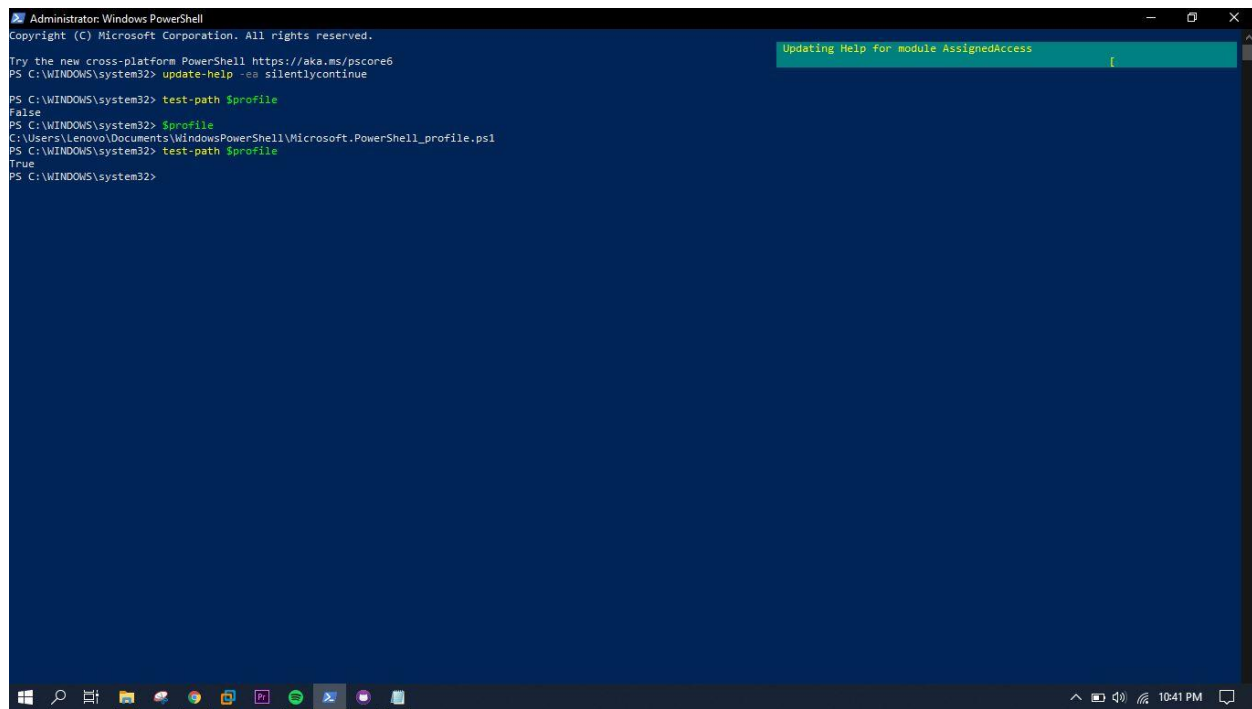
```
Administrator: Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\WINDOWS\system32> update-help -ea silentlycontinue
PS C:\WINDOWS\system32>
```

The screenshot shows a Windows PowerShell window running as Administrator. The title bar reads "Administrator: Windows PowerShell". The window content shows the copyright notice for Microsoft Corporation, a link to the cross-platform PowerShell, and the execution of the `update-help -ea silentlycontinue` command. A green progress bar at the top right indicates "Updating Help for module AssignedAccess". The command prompt is currently at `PS C:\WINDOWS\system32>`.

3. While running the test-path \$profile initially, the answer yields as false. The test-path command returns \$true if the path exists, otherwise returns \$false, this determines whether all elements of the path exist. Here, it showed \$True which indicated that the setup was done successfully, and the file is up and running.

After that, I created a profile file, adding my scripts folder to my command path.



Administrator: Windows PowerShell

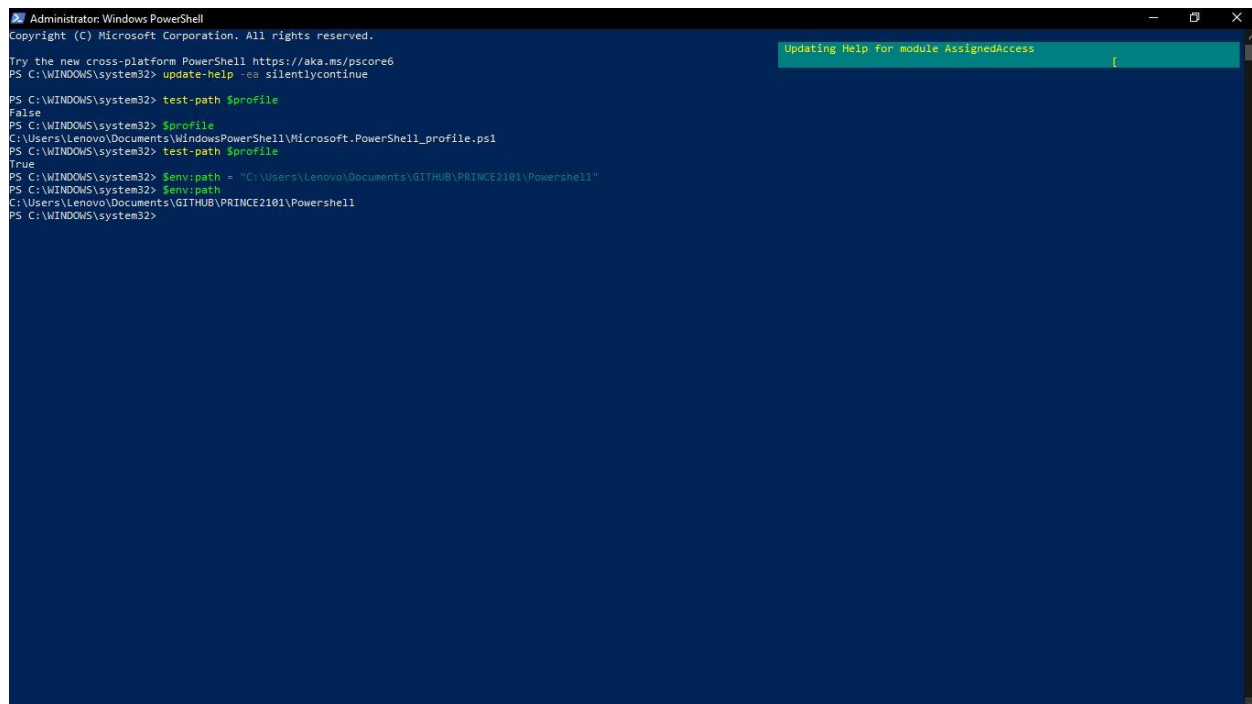
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

```
PS C:\WINDOWS\system32> update-help -ea silentlycontinue
PS C:\WINDOWS\system32> test-path $profile
False
PS C:\WINDOWS\system32> $profile
C:\Users\Lenovo\Documents\WindowsPowerShell\Microsoft.PowerShell_profile.ps1
PS C:\WINDOWS\system32> test-path $profile
True
PS C:\WINDOWS\system32>
```

Updating Help for module AssignedAccess

4. The `$env:PSModulePath` environment variable contains a list of folder locations that are searched to find modules and resources.



Administrator: Windows PowerShell

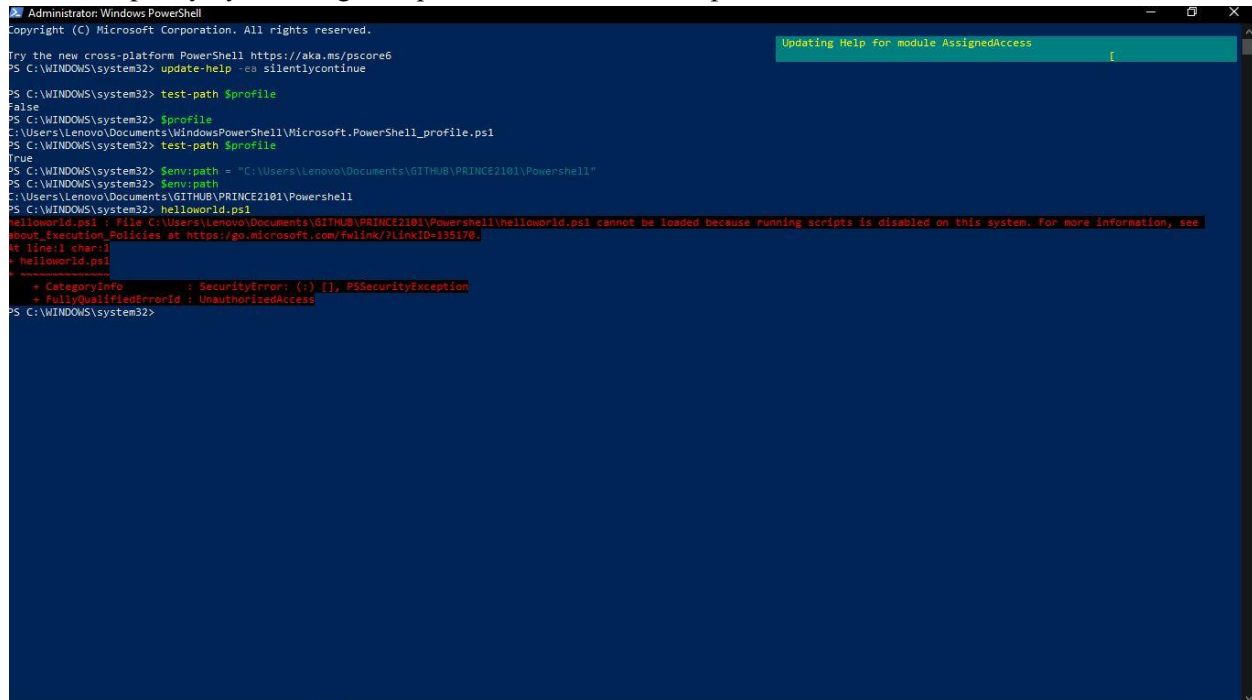
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

```
PS C:\WINDOWS\system32> update-help -ea silentlycontinue
PS C:\WINDOWS\system32> test-path $profile
False
PS C:\WINDOWS\system32> $profile
C:\Users\Lenovo\Documents\WindowsPowerShell\Microsoft.PowerShell_profile.ps1
PS C:\WINDOWS\system32> test-path $profile
True
PS C:\WINDOWS\system32> $env:path = "C:\Users\Lenovo\Documents\GITHUB\PRINCE2101\PowerShell"
PS C:\WINDOWS\system32> $env:path
C:\Users\Lenovo\Documents\GITHUB\PRINCE2101\PowerShell
PS C:\WINDOWS\system32>
```

Updating Help for module AssignedAccess

5. After that, I tried to run helloworld.ps1, which didn't show any output. Only after setting up the execution policy by selecting the option "a", the desired output is shown.

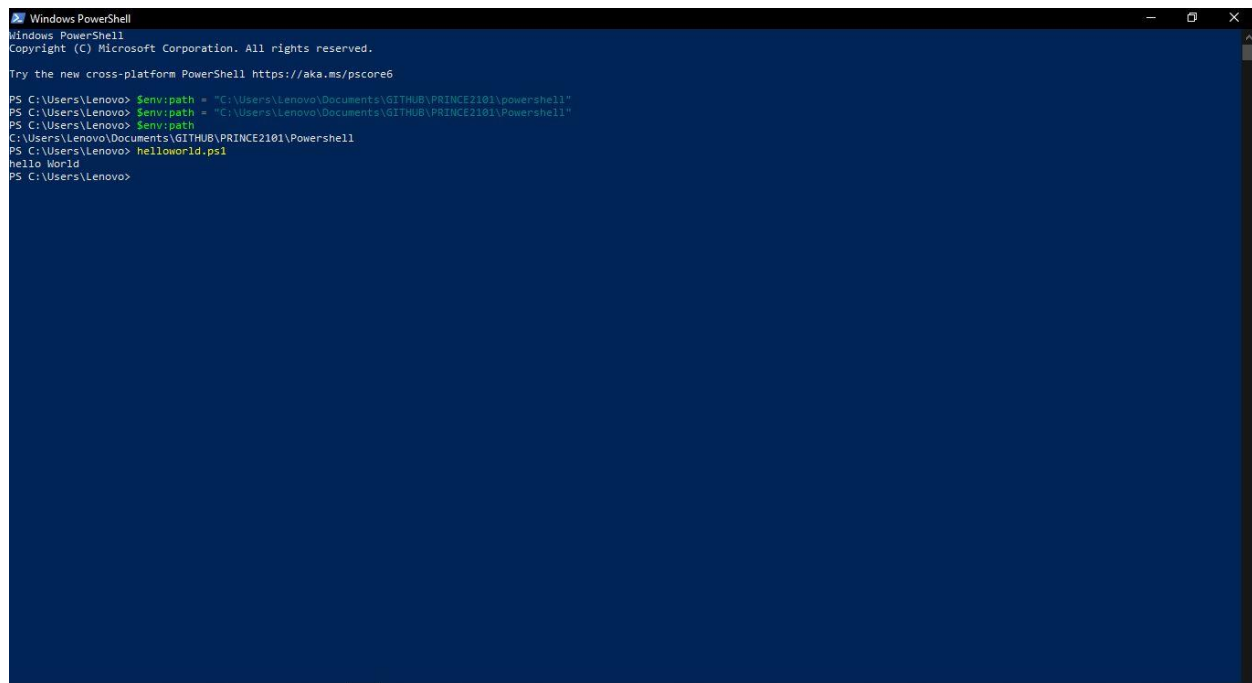


```
Administrator: Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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
False
PS C:\WINDOWS\system32> $profile
C:\Users\Lenovo\Documents\WindowsPowerShell\Microsoft.PowerShell_profile.ps1
PS C:\WINDOWS\system32> test-path $profile
True
PS C:\WINDOWS\system32> $env:path = "C:\Users\Lenovo\Documents\GITHUB\PRINCE2101\PowerShell"
PS C:\WINDOWS\system32> $env:path
C:\Users\Lenovo\Documents\GITHUB\PRINCE2101\PowerShell
PS C:\WINDOWS\system32> helloworld.ps1
helloworld.ps1 : File C:\Users\Lenovo\Documents\GITHUB\PRINCE2101\PowerShell\helloworld.ps1 cannot be loaded because running scripts is disabled on this system. For more information, see
about_Execution_Policies at https://go.microsoft.com/fwlink/?LinkID=135170.
at line:1 char:1
+ helloworld.ps1
+ ~~~~~
+ CategoryInfo          : SecurityError: (:) [], PSSecurityException
+ FullyQualifiedErrorId : UnauthorizedAccess

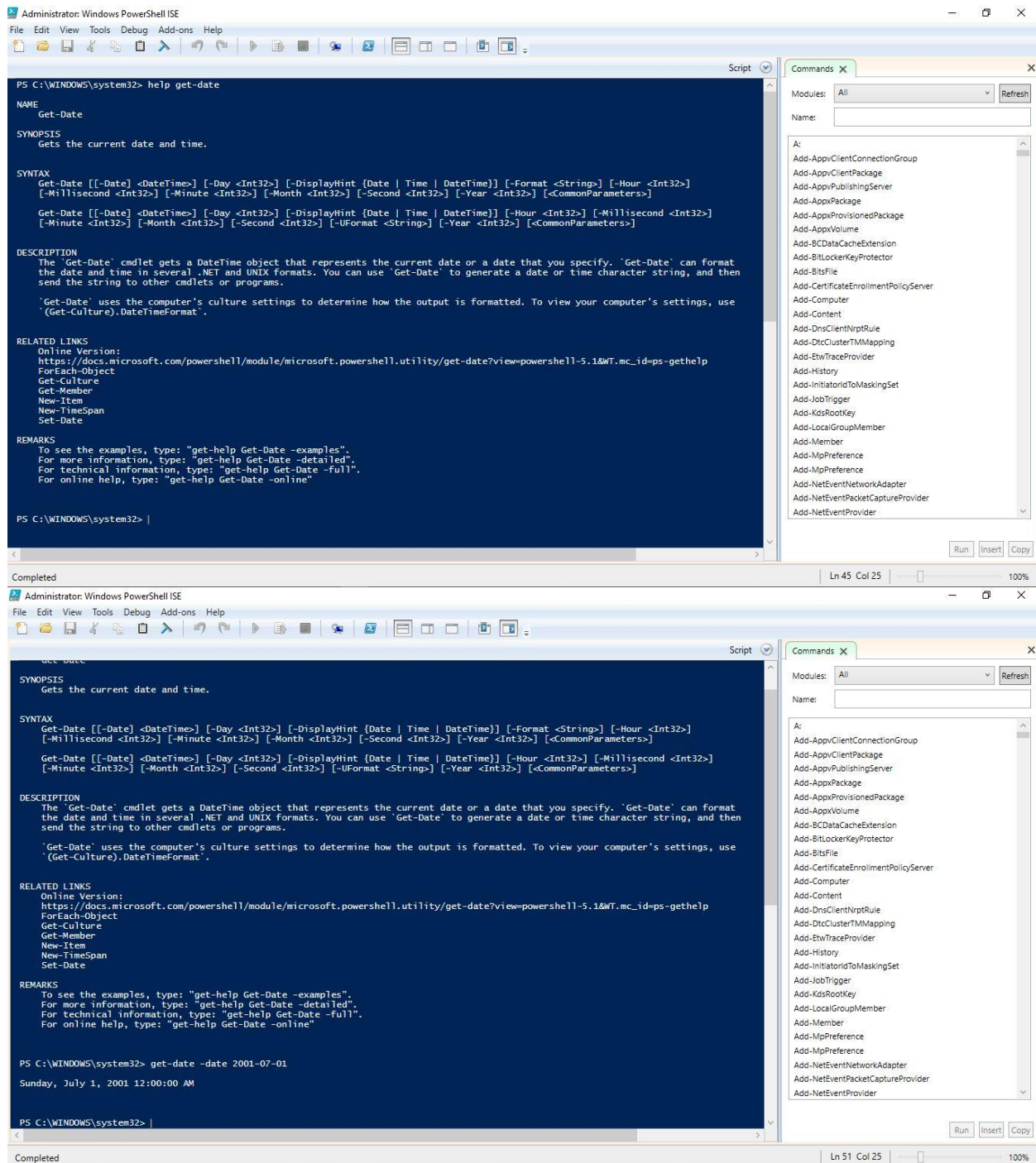
PS C:\WINDOWS\system32>
```



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

Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\Lenovo> $env:path = "C:\Users\Lenovo\Documents\GITHUB\PRINCE2101\powershell"
PS C:\Users\Lenovo> $env:path = "C:\Users\Lenovo\Documents\GITHUB\PRINCE2101\PowerShell"
PS C:\Users\Lenovo> $env:path
C:\Users\Lenovo\Documents\GITHUB\PRINCE2101\PowerShell
PS C:\Users\Lenovo> helloworld.ps1
hello World
PS C:\Users\Lenovo>
```

6. In the screenshots below, I run help gate-date command. By using the command help pane in ise, get-date command is run and constructed to show the date with the date set to my Birthday as 2001-July-01.



Finally, after completing all the required steps, I was successfully able to run my hello world script and verify it. This is done in a new Powershell window without stipulating the path to the script.

A screenshot of a Windows PowerShell window titled "Administrator: Windows PowerShell". The window has a dark blue background. The command prompt shows the following sequence of text: "PS C:\WINDOWS\system32> helloworld.ps1" in yellow, followed by "hello World" in white, and then "PS C:\WINDOWS\system32>" in white. The window includes standard Windows window controls (minimize, maximize, close) in the top right corner and a vertical scrollbar on the right side.

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

END OF LAB.

200420164