

Assignment – 1

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1) Create & remove environment variable:

Variable Name - TEST

Variable Value - C:\Program Files (x86)\Test

.....
[Environment]::SetEnvironmentVariable("TEST", "C:\Program Files (x86)\Test\","User")

if want to create a user environment variable

[Environment]::SetEnvironmentVariable("TEST","C:\Program Files (x86)\Test\","Machine")

if want to create a system environment variable

#for removal

REG delete "HKCU\Environment" /F /V "TEST"

2) Create a shortcut with below parameters and set icon for that shortcut.

Location - C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Test

Shortcut Name – Internet Explorer Test.lnk

Target EXE - "C:\Program Files (x86)\Internet Explorer\iexplore.exe"

Start in - "C:\Program Files\Internet Explorer"

Icon – Yes

#we will be using windows script host(older technology)

#win script host is instantiated first.

\$WinObj = New-Object -ComObject WScript.Shell

#using createshortcut method and assigning it to a variable

#this is location where the shortcut needs to be created

#this dont create shortcut rather just instantiates the create shortcut object.

\$ShortCut = \$WinObj.CreateShortcut("C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Test\Internet Explorer Test.lnk")

#Path to file shortcut will open

#location of the file which we want our shortcut to open

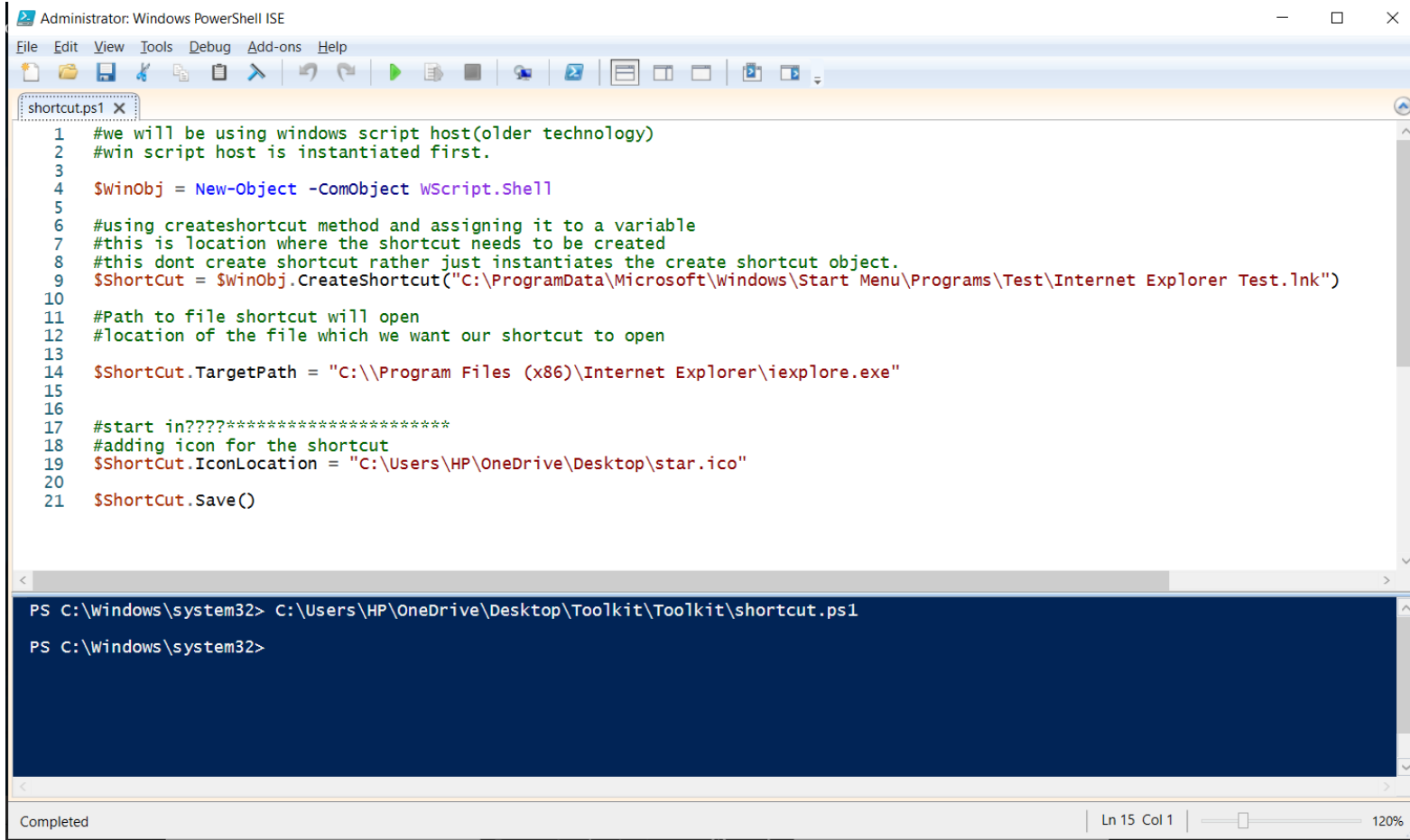
\$ShortCut.TargetPath = "C:\\Program Files (x86)\Internet Explorer\iexplore.exe"

#start in????*****

#adding icon for the shortcut

```
$Shortcut.IconLocation = "C:\Users\HP\OneDrive\Desktop\star.ico"
```

```
$Shortcut.Save()
```

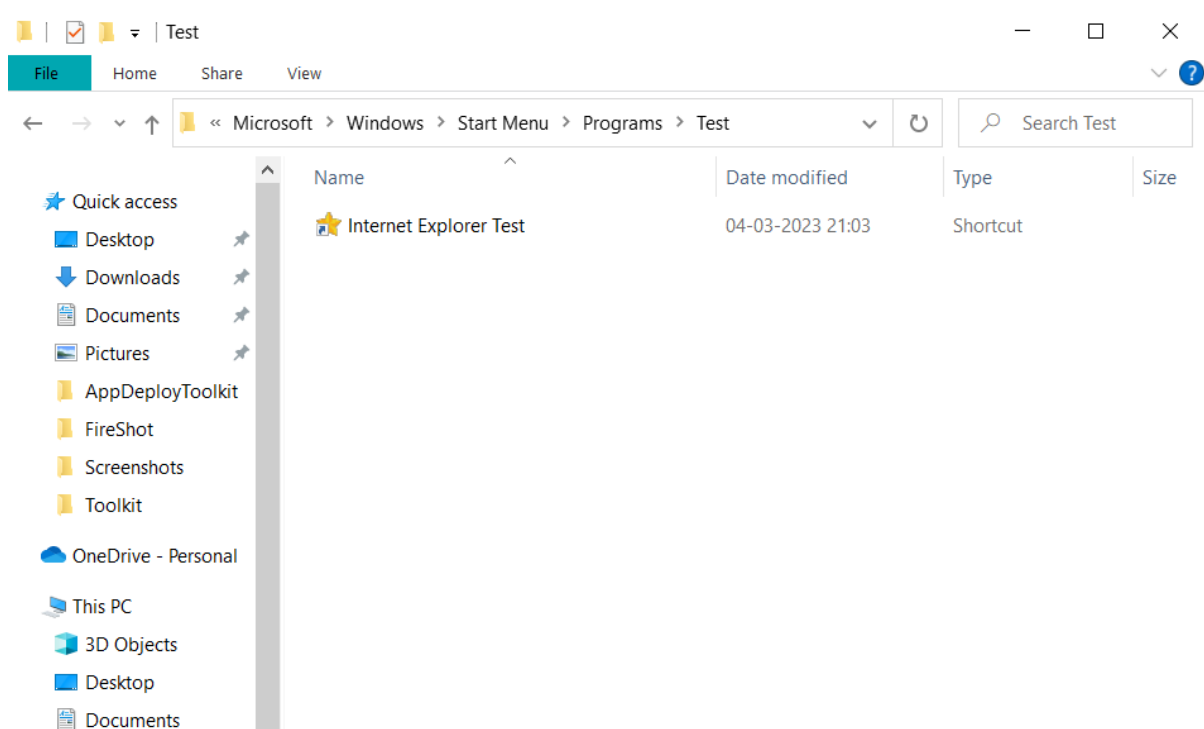


The screenshot shows the Windows PowerShell ISE interface. The top pane displays a PowerShell script named 'shortcut.ps1' with 21 lines of code. The script uses the 'wscript' host to create a shortcut object, set its target path to 'C:\Program Files (x86)\Internet Explorer\iexplore.exe', set its icon location to 'C:\Users\HP\OneDrive\Desktop\star.ico', and saves it. The bottom pane shows the command prompt execution of the script, with the prompt 'PS C:\Windows\system32>' and the command 'C:\Users\HP\OneDrive\Desktop\Toolkit\Toolkit\shortcut.ps1'. The status bar at the bottom indicates 'Completed' and 'Ln 15 Col 1'.

```
Administrator: Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help
shortcut.ps1 X
1 #we will be using windows script host(older technology)
2 #win script host is instantiated first.
3
4 $WinObj = New-Object -ComObject WScript.Shell
5
6 #using createshortcut method and assigning it to a variable
7 #this is location where the shortcut needs to be created
8 #this dont create shortcut rather just instantiates the create shortcut object.
9 $Shortcut = $WinObj.CreateShortcut("C:\ProgramData\Microsoft\windows\Start Menu\Programs\Test\Internet Explorer Test.lnk")
10
11 #Path to file shortcut will open
12 #location of the file which we want our shortcut to open
13
14 $Shortcut.TargetPath = "C:\Program Files (x86)\Internet Explorer\iexplore.exe"
15
16
17 #start in????*****
18 #adding icon for the shortcut
19 $Shortcut.IconLocation = "C:\Users\HP\OneDrive\Desktop\star.ico"
20
21 $Shortcut.Save()

PS C:\Windows\system32> C:\Users\HP\OneDrive\Desktop\Toolkit\Toolkit\shortcut.ps1
PS C:\Windows\system32>

Completed | Ln 15 Col 1 | 120%
```



4) Read .ini file and update it.

VMClient.ini

Current Value - IndigoTcpPort=8100

New Value - IndigoTcpPort=8000

Also check if value MUOptIn = 0 is exists, If yes then set it to '1' else add MUOptIn = 1

VMClient.ini - Notepad

File Edit Format View Help

[OPTIONS]

ProgramFiles=C:\Program Files\Internet Explorer\images

IndigoTcpPort=8100

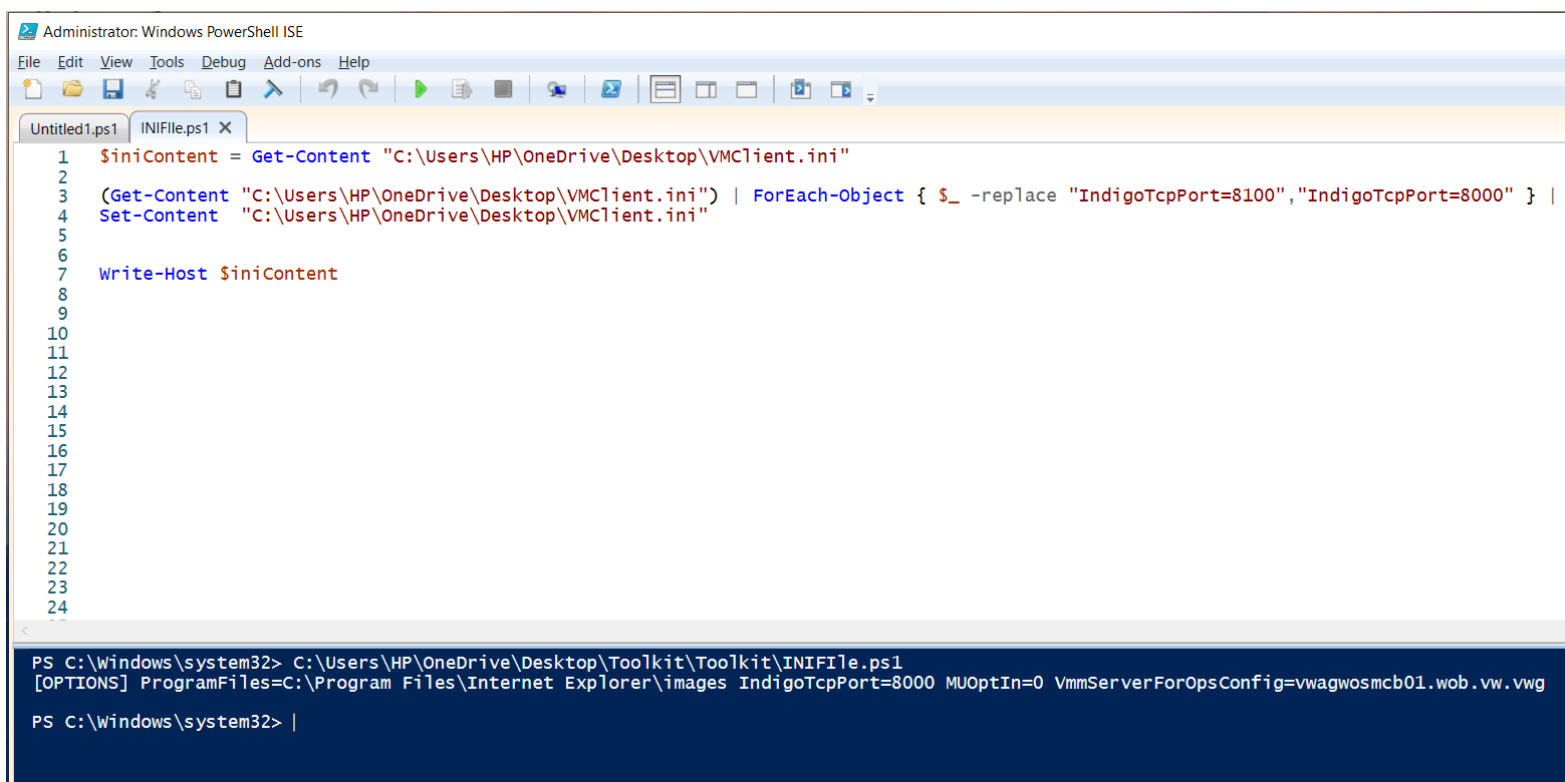
MUOptIn=0|

VmmServerForOpsConfig=vwagwosmcb01.wob.vw.vwg

```
$GetiniContent = Get-Content "C:\Users\HP\OneDrive\Desktop\VMClient.ini"
```

```
($iniContent) | ForEach-Object { $_ -replace "IndigoTcpPort=8100","IndigoTcpPort=8000" } |  
Set-Content "C:\Users\HP\OneDrive\Desktop\VMClient.ini"
```

```
Write-Host $iniContent
```



The screenshot shows the Windows PowerShell ISE interface. The script editor contains the following code:

```
1 $iniContent = Get-Content "C:\Users\HP\OneDrive\Desktop\VMClient.ini"  
2  
3 (Get-Content "C:\Users\HP\OneDrive\Desktop\VMClient.ini") | ForEach-Object { $_ -replace "IndigoTcpPort=8100","IndigoTcpPort=8000" } |  
4 Set-Content "C:\Users\HP\OneDrive\Desktop\VMClient.ini"  
5  
6  
7 Write-Host $iniContent  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24
```

The console window shows the execution of the script:

```
PS C:\Windows\system32> C:\Users\HP\OneDrive\Desktop\Toolkit\Toolkit\INIFile.ps1  
[OPTIONS] ProgramFiles=C:\Program Files\Internet Explorer\images IndigoTcpPort=8000 MUOptIn=0 VmmServerForOpsConfig=vwagwosmcb01.wob.vw.vwg  
PS C:\Windows\system32> |
```

```
$GetiniContent = Get-Content "C:\Users\HP\OneDrive\Desktop\VMClient.ini"
```

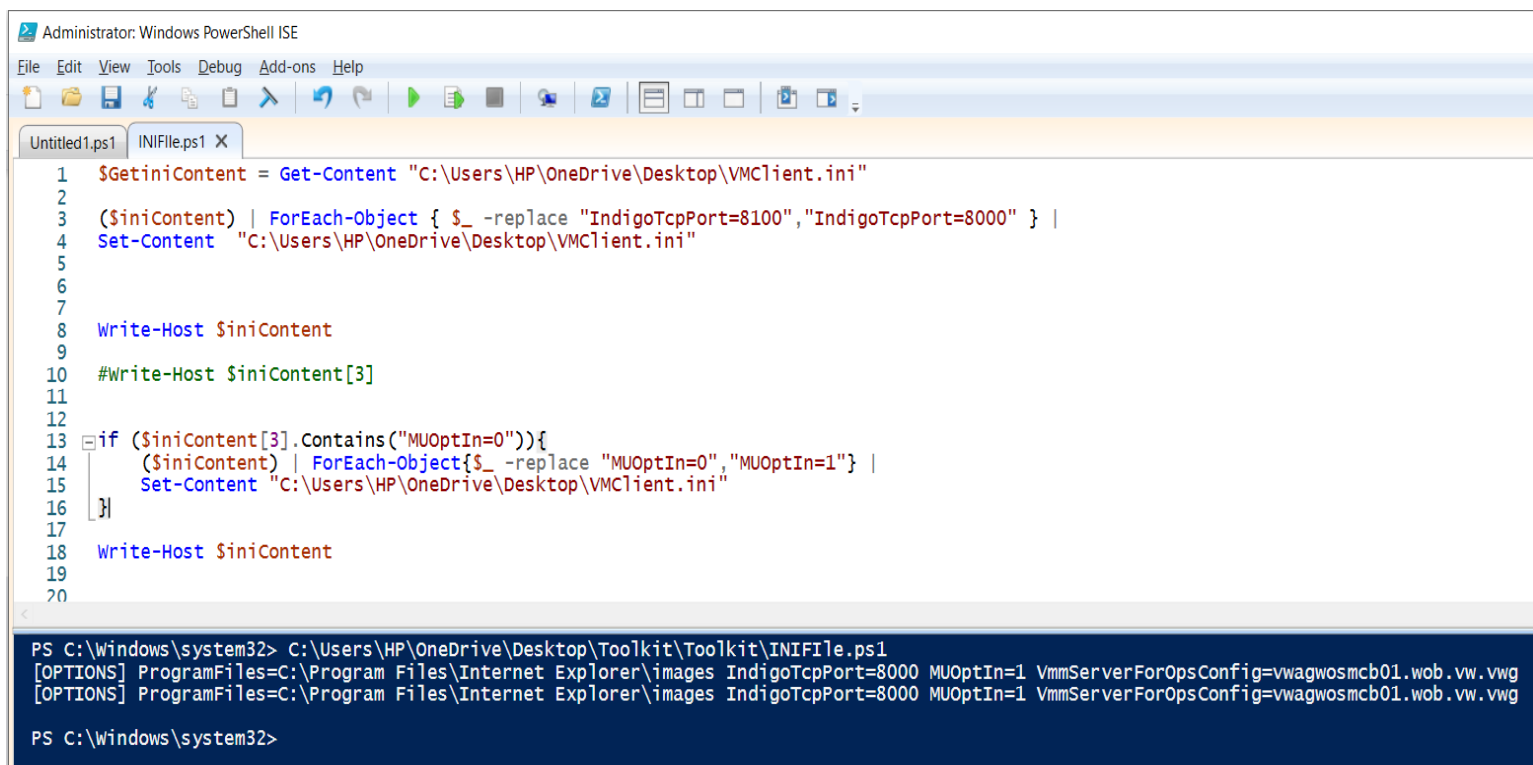
```
($iniContent) | ForEach-Object { $_ -replace "IndigoTcpPort=8100","IndigoTcpPort=8000" } |  
Set-Content "C:\Users\HP\OneDrive\Desktop\VMClient.ini"
```

```
Write-Host $iniContent
```

```
#Write-Host $iniContent[3]
```

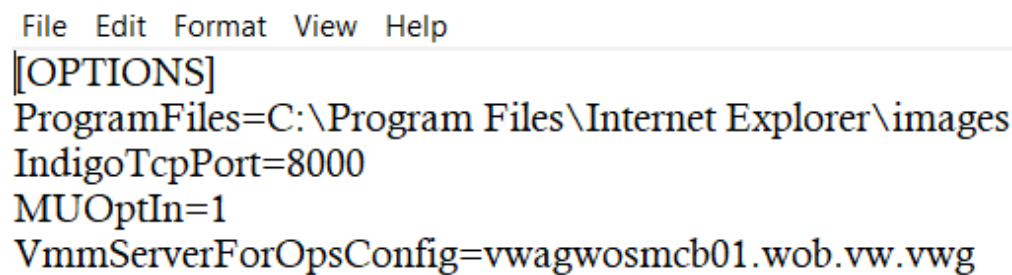
```
if ($iniContent[3].Contains("MUOptIn=0")){  
    ($iniContent) | ForEach-Object{$_ -replace "MUOptIn=0","MUOptIn=1"} |  
    Set-Content "C:\Users\HP\OneDrive\Desktop\VMClient.ini"  
}
```

Write-Host \$iniContent



```
Administrator: Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help
Untitled1.ps1 INIFile.ps1 X
1 $GetiniContent = Get-Content "C:\Users\HP\OneDrive\Desktop\VMClient.ini"
2
3 ($iniContent) | ForEach-Object { $_ -replace "IndigoTcpPort=8100","IndigoTcpPort=8000" } |
4 Set-Content "C:\Users\HP\OneDrive\Desktop\VMClient.ini"
5
6
7
8 Write-Host $iniContent
9
10 #Write-Host $iniContent[3]
11
12
13 if ($iniContent[3].Contains("MUOptIn=0")){
14     ($iniContent) | ForEach-Object{$_ -replace "MUOptIn=0","MUOptIn=1"} |
15     Set-Content "C:\Users\HP\OneDrive\Desktop\VMClient.ini"
16 }
17
18 Write-Host $iniContent
19
20
PS C:\Windows\system32> C:\Users\HP\OneDrive\Desktop\Toolkit\Toolkit\INIFile.ps1
[OPTIONS] ProgramFiles=C:\Program Files\Internet Explorer\images IndigoTcpPort=8000 MUOptIn=1 VmmServerForOpsConfig=vwagwosmcb01.wob.vw.vwg
[OPTIONS] ProgramFiles=C:\Program Files\Internet Explorer\images IndigoTcpPort=8000 MUOptIn=1 VmmServerForOpsConfig=vwagwosmcb01.wob.vw.vwg
PS C:\Windows\system32>
```

VMClient.ini - Notepad



```
File Edit Format View Help
[[OPTIONS]
ProgramFiles=C:\Program Files\Internet Explorer\images
IndigoTcpPort=8000
MUOptIn=1
VmmServerForOpsConfig=vwagwosmcb01.wob.vw.vwg
```

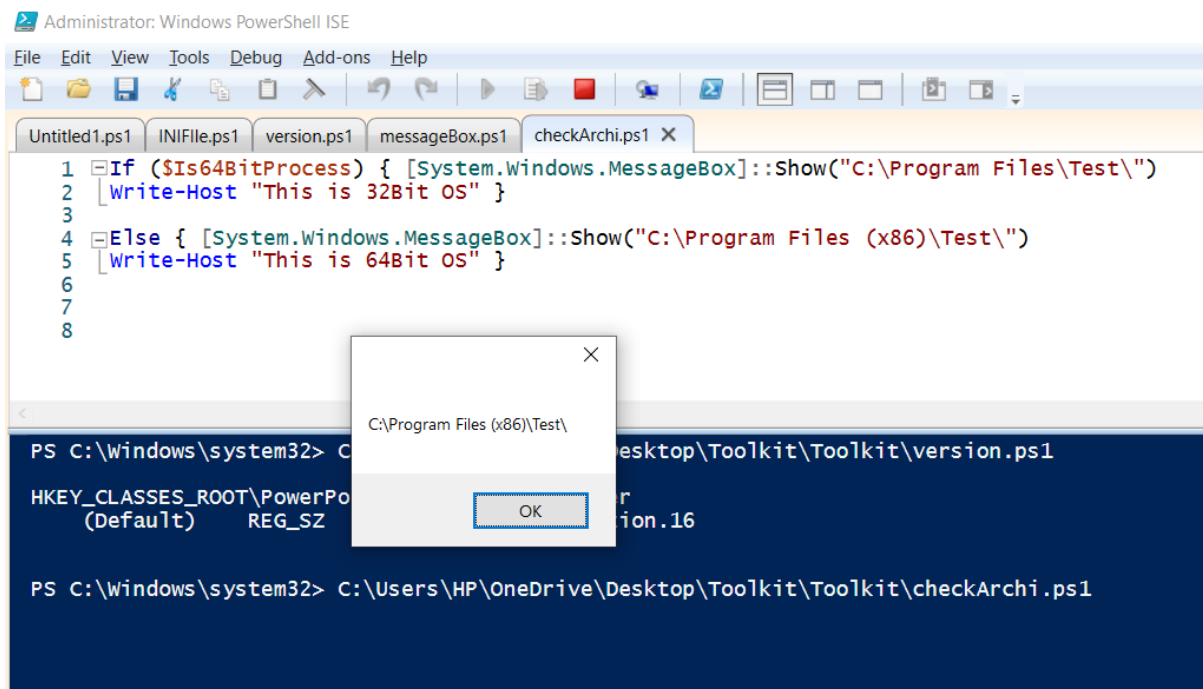
```
*****
*****
```

(5)
Check system architecture of OS:

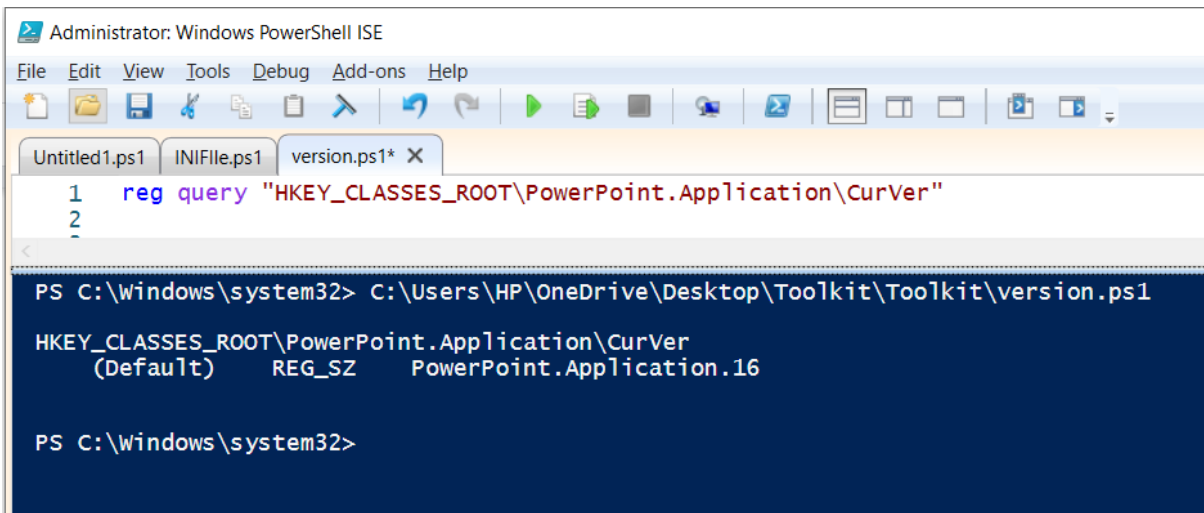
If operating system is x86 (32-bit) then displays a message “C:\Program Files\Test\
If operating system is x64 (64-bit) then displays a message “C:\Program Files
(x86)\Test\
Displays a message accordingly in message Box.

```
If ($Is64BitProcess) { [System.Windows.MessageBox]::Show("C:\Program Files\Test\  
Write-Host "This is 32Bit OS" }
```

```
Else { [System.Windows.MessageBox]::Show("C:\Program Files (x86)\Test\  
Write-Host "This is 64Bit OS" }
```



(6) Check installed Microsoft Office version on the machine and displays a message accordingly.



The image shows a screenshot of the Windows PowerShell ISE (Integrated Scripting Environment) running as Administrator. The window title is "Administrator: Windows PowerShell ISE". The menu bar includes File, Edit, View, Tools, Debug, Add-ons, and Help. The toolbar contains various icons for file operations and execution. The script editor shows three tabs: "Untitled1.ps1", "INIFile.ps1", and "version.ps1* X". The "version.ps1" tab is active and contains the following script:

```
1 reg query "HKEY_CLASSES_ROOT\PowerPoint.Application\CurVer"
2
```

The console window below the script editor shows the execution of the script. The prompt is "PS C:\Windows\system32>". The command executed is "C:\Users\HP\OneDrive\Desktop\Toolkit\Toolkit\version.ps1". The output is:

```
HKEY_CLASSES_ROOT\PowerPoint.Application\CurVer
(Default) REG_SZ PowerPoint.Application.16
```

The prompt returns to "PS C:\Windows\system32>".