PowerShell Scripting

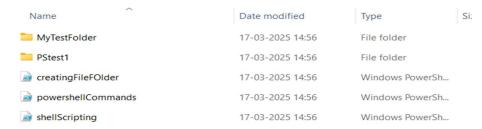
1. PowerShell Commands:

- get-help: Displays information about Windows PowerShell commands and concepts.
- **Get-Process**: To retrieve information about running processes on a system.
- **Get-Command**: To retrieve information about cmdlets, functions, scripts, and executables available in the session.
- Get-Command Get-Process: Retrieves details about the Get-Process cmdlet.
- Stop-Process -id <number> : Used to stop a process with the id.
- **Get-Service** Retrieves information about system services.
- stop-service <serviceName> : To stop a service .

2. Creating Files and Directories:

Creating a new Folder:

New-Item -ItemType Directory -Path "D:\AzureDevops\PStest1"



Creating a File:

New-Item -ItemType File -Path "D:\AzureDevops\PStest1\sample.txt"

New-Item -ItemType File -Path "D:\AzureDevops\PStest1\sample1.txt" -Force



Writing into a File:

Set-Content -Path "D:\AzureDevops\PStest1\sample.txt" -Value "This is

Priya gowtami"



```
Get content from File:
```

```
Get-Content -Path "D:\AzureDevops\PStest1\sample.txt"
```

Removing Files from a directory:

```
Remove-Item -Path "D:\AzureDevops\PStest1\sample1.txt"
```

List out files in a directory:

```
Get-ChildItem "D:\AzureDevops\PStest1"
```

Remvoing a folder/directory

```
New-Item -ItemType Directory -Path "D:\AzureDevops\PStest2"

New-Item -ItemType File -Path "D:\AzureDevops\PStest2\sample2.txt"
```

Remove-Item -Path "D:\AzureDevops\PStest2" -Force

Copying Files:

```
Copy-Item -Path "D:\AzureDevops\PStest1\sample.txt" -Destination

"D:\AzureDevops\PStest1\sample1.txt"

Get-Content -Path "D:\AzureDevops\PStest1\sample1.txt"
```

3. Shell Scripting:

creating a variable

```
$var = "value"

$var - used to print the value

Write-Host $var - Displays the value

$Age = Read-Host "Enter your age?" #read input from user
```

• if conditional script:

```
$number = 10
if($number -gt 5)
{
    Write-Host "$($Number) is greater than 5" #get variable value inside ""
```

```
}
elseif($number -eq 5)
{
  Write-Host "Number is equal to 5"
}
else
{
  Write-Host "$($Number) is less than 5"
}
```

Output:

```
PS C:\Users\gouth>
$number = 10
if($number -gt 5)
{
   Write-Host "$($Number) is greater than 5" #get variable value inside ""
} elseif($number -eq 5)
{
   Write-Host "Number is equal to 5"
} else
{
   Write-Host "$($Number) is less than 5"
}
10 is greater than 5
```

• for loop script

To write a script that creates 5files which are of the same format using loops

```
else
{
 Write-Host "Folder already exists: $($folderPath)"
create 5 files within that folder with date and time as file name and add content
for($i=1;$i -le 5;$i++)
{
 $dateTime = Get-Date -Format "yyyy-MM-dd"
 $fileName = "file_$($dateTime)_$($i).txt"
 $filePath = Join-Path -Path $folderpath -ChildPath $fileName
 create file
 New-Item -ItemType File -Path $filePath -Force | Out-Null
 set content
 $fileContent = "softwareGurukulam_$($fileName)"
 Set-Content -Path $filePath -Value $fileContent
 Write-Host "created file: $($filePath) with content: $($fileContent)"
}
 Output:
```

Nam	2	Date modified	Туре	5
file	_2025-03-11_1	17-03-2025 14:56	Text Document	
file	2025-03-11_2	17-03-2025 14:56	Text Document	
file	2025-03-11_3	17-03-2025 14:56	Text Document	
file	2025-03-11_4	17-03-2025 14:56	Text Document	
file	2025-03-11_5	17-03-2025 14:56	Text Document	