POWERSHELL SCRIPTS

1. Write a script that will monitor the ram usage if the usage is more than 80% it should print an error message and if it is less than 80% it is normal.

RAM_usage.ps1

```powershell
$memory = Get-WmiObject Win32_OperatingSystem
$totalMemory = $memory.TotalVisibleMemorySize
$freeMemory = $memory.freePhysicalMemory

$usedMemory = $totalmemory - $freeMemory
$usedMemoryPercentage = ($usedMemory / $totalMemory) * 100

$threshold = 80

if ($usedMemoryPercentage -gt $threshold){
    Write-Host "Error: RAM usage is above $threshold %."
} else {
    Write-Host "Normal: RAM usage is below $threshold %."
}
```

```
PS C:\Users\SGIDUTURI> C:\Users\SGIDUTURI\Desktop\RAM_usage.ps1
Normal: RAM usage is below 80%.

PS C:\Users\SGIDUTURI> C:\Users\SGIDUTURI\Desktop\RAM_usage.ps1
Normal: RAM usage is below 80%.

PS C:\Users\SGIDUTURI> C:\Users\SGIDUTURI\Desktop\RAM_usage.ps1
Normal: RAM usage is below 80.

PS C:\Users\SGIDUTURI> C:\Users\SGIDUTURI\Desktop\RAM_usage.ps1
Normal: RAM usage is below 80 %.

PS C:\Users\SGIDUTURI>
```

RAM_usage.ps1*

```powershell
$memory = Get-WmiObject Win32_OperatingSystem
$totalMemory = $memory.TotalVisibleMemorySize
$freeMemory = $memory.freePhysicalMemory

$usedMemory = $totalmemory - $freeMemory
$usedMemoryPercentage = ($usedMemory / $totalMemory) * 100

$RoundMemory = [math]::Round($usedMemoryPercentage,2)

if ($RoundMemory -gt 80){
    Write-Host "The memory used is: $RoundMemory "
    Write-Host "Error: RAM usage is in limit ."
} else {
    Write-Host "The memory used is: $RoundMemory"
    Write-Host "Normal: RAM usage is below limit."
}
```

```
PS C:\Users\SGIDUTURI> C:\Users\SGIDUTURI\Desktop\RAM_usage.ps1
The memory used is: 42.58
Normal: RAM usage is below limit.

PS C:\Users\SGIDUTURI> C:\Users\SGIDUTURI\Desktop\RAM_usage.ps1
The memory used is: 42.44
Normal: RAM usage is below limit.

PS C:\Users\SGIDUTURI>
```

1. Write a script to identify the files older than 1 day and move them into a folder named backup.