

Task 1:

My approach to this task was to create Create-User function and Create-UserFolder function

Create-User :

```
Function Create-User {
    ##Wrapping the whole logic in do while loop
    do {
        ## Clearing all Variables before every input
        Clear-Variable -Name FirstName, LastName, Password -ErrorAction SilentlyContinue
        ##Prompting the user to add data
        $FirstName = Read-Host "Enter first name:"
        $LastName = Read-Host "Enter last name:"
        $Password = Read-Host "Enter password:"
        $Username = "${FirstName.ToLower()}.${LastName.ToLower()}"
        ##Creating member
        New-LocalUser -Name $Username -Password (ConvertTo-SecureString "$Password" -AsPlainText -Force) -FullName "$FirstName $LastName" -Description "Type of User"
        ##Calling function #2 to create folder for the new user
        Create-UserFolder -Username "$Username"
        ##Check to break the loop
        $New = Read-Host "Do you want to create a new user [Y/N]"

        if ($New.ToLower() -ne "y") {
            break
        } while ($true)
    }

}

Function Create-UserFolder{
    Param(
        [string]$Username
    )
    New-Item -Path "C:\Shared\$Username" -ItemType Directory
}
```

Proof :

```
HostStatus.ps1 X
16 }
17 }
18 }
19
20 Function Create-User {
21 do {
22     Clear-Variable -Name FirstName, LastName, Password -ErrorAction SilentlyContinue
23
24     $FirstName = Read-Host "Enter first name:"
25     $LastName = Read-Host "Enter last name:"
26     $Password = Read-Host "Enter password:"
27     $Username = "${FirstName.ToLower()}.${LastName.ToLower()}"
28
29     New-LocalUser -Name $Username -Password (ConvertTo-SecureString "$Password" -AsPlainText -Force) -FullName "$FirstName $LastName" -Description "Type of User"
30
31     Create-UserFolder -Username "$Username"
32
33     $New = Read-Host "Do you want to create a new user [Y/N]"
34
35     if ($New.ToLower() -ne "y") {
36         break
37     } while ($true)
38 }
39 }
40
41 Function Create-UserFolder{
42 Param(
43     [string]$Username
44 )
45
46 New-Item -Path "C:\Shared\$Username" -ItemType Directory
47 }
48
49
50
```

```
Enter first name:: gaga
Enter last name:: gagaga
Enter password:: password-123

Do you want to create a new user [Y/N]: y
Enter first name:: hahaha
Enter last name:: hahahahaha
Enter password:: password-123

Name             Enabled Description
-----
gaga.gagaga       True      Type of User

PSPath            : Microsoft.PowerShell.Core\FileSystem:C:\Shared\gaga.gagaga
PSParentPath      : Microsoft.PowerShell.Core\FileSystem:C:\Shared
PSPChildName      : gaga.gagaga
PSDrive           : C:
PSProvider         : Microsoft.PowerShell.Core\FileSystem
PSIsContainer     : True
Name              : gaga.gagaga
FullName          : C:\Shared\gaga.gagaga
Parent            : Shared
Exists            : True
Root              : C:\
Extension         : .gagaga
CreationTime      : 5/14/2024 2:28:20 PM
CreationTimeUtc   : 5/14/2024 9:28:20 PM
LastAccessTime    : 5/14/2024 2:28:20 PM
LastAccessTimeUtc : 5/14/2024 9:28:20 PM
LastWriteTime     : 5/14/2024 2:28:20 PM
LastWriteTimeUtc  : 5/14/2024 9:28:20 PM
Attributes        : Directory
Mode              : d-----
BaseName          : gaga.gagaga
Target            : {}
LinkType          :

hahaha.hahahahaha True      Type of User

PSPath            : Microsoft.PowerShell.Core\FileSystem:C:\Shared\hahaha.hahahahaha
PSParentPath      : Microsoft.PowerShell.Core\FileSystem:C:\Shared
```

Task 2

```
51
52 Function Create-ProjectFileFramework{
53     Param
54     (
55         [int]$ProjectStart,
56         [int]$ProjectEnd,
57         [int]$PhaseStart,
58         [int]$PhaseEnd
59     )
60
61     for($i=$ProjectStart; $i -le $ProjectEnd; $i++){
62         for($j=$PhaseStart; $j -le $PhaseEnd; $j++){
63             New-Item -Path "C:\Projects\Project$i\Phase$j" -ItemType Directory
64         }
65     }
66 }
67
68 }
69
70
```

```
PS C:\Users\Administrator> Create-ProjectFileFramework -ProjectStart 1 -ProjectEnd 3 -PhaseStart 1 -PhaseEnd 2

Directory: C:\Projects\Project1

Mode                LastWriteTime         Length Name
----                -
d-----          5/14/2024   3:10 PM                Phase1
d-----          5/14/2024   3:10 PM                Phase2

Directory: C:\Projects\Project2

Mode                LastWriteTime         Length Name
----                -
d-----          5/14/2024   3:10 PM                Phase1
d-----          5/14/2024   3:10 PM                Phase2

Directory: C:\Projects\Project3

Mode                LastWriteTime         Length Name
----                -
d-----          5/14/2024   3:10 PM                Phase1
d-----          5/14/2024   3:10 PM                Phase2

PS C:\Users\Administrator>
```