```
##### 1
```



```
function Get-MLOVersion
{
$PSVersionTable.PSVersion.Major
}


#2### Very Simple Function #################
Function Write-Welcome
{
Write-Host "Welcome Mr. Raymond"
}


#3 ###################### Specifying parameter ##################
Function Write-Welcome
{param ($name)
Write-Host "Welcome Mr. $Name"
}
```



```
(Get-Command -Name Write-Welcome).Parameters.Keys
Get-Command -Name Write-Welcome -Syntax


#4 ################################## Advanced Functions ##################3
Function Welcome
{
[CmdletBinding()]
param ($name)
Write-host "Welcome Mr. $Name"
}

(Get-Command -Name Welcome).Parameters.Keys


#5 #### Include WhatIf and Confirm

Function Welcome
{
[CmdletBinding(SupportsShouldProcess)]
param ($name)
Write-host "Welcome Mr. $Name"
}
```

```powershell
(Get-Command -Name Welcome).Parameters.Keys


#6 #### Decalre a Parameter as Mandatory ####
Function Write-Welcome
{
[CmdletBinding(SupportsShouldProcess)]
param (
[Parameter(Mandatory)]
$name)
Write-host "Welcome Mr $Name"
}

(Get-Command -Name Welcome).Parameters.Keys


#7 ################ Setting Default Value #####

Function Write-Welcome
{
[CmdletBinding(SupportsShouldProcess)]
param (
[ValidateNotNullOrEmpty()]
[string[]]$name = "Raymond"
)
Write-host "Welcome Mr. $Name"
}




#8 #### With Verbose #####
Function Write-Welcome
{
[CmdletBinding(SupportsShouldProcess)]
param (
[ValidateNotNullOrEmpty()]
[string[]]$name = "Raymond"
)
Write-Verbose -Message "Welcoming Our Guest"
Write-host "Welcome Mr. $Name"
}




#9 ### Adding Help ####
Function Write-Welcome
{
<#
.SYNOPSIS
```

Welcomes User

.DESCRIPTION
    Write-Welcome is a function that welcomes User

.PARAMETER Name
    Defines the Name of User

.PARAMETER Place

.EXAMPLE
    Write-Welcome -Name "Raymond"

.EXAMPLE
    Example2

.EXAMPLE
    Example3

.INPUTS
    String

.OUTPUTS
    PSCustomObject

.NOTES
    Author: luxmi narayaan
    Website: Test Function

#>
[CmdletBinding(SupportsShouldProcess)]
param (
[ValidateNotNullOrEmpty()]
[string[]]$name = "Raymond"
)
Write-Verbose -Message "Welcoming Our Guest"
Write-host "Welcome Mr $Name"
}

#10 #### Using Multiple Parameters #####
Function Write-Welcome
{
[CmdletBinding(SupportsShouldProcess)]
param (
[ValidateNotNullOrEmpty()]
[string[]]$Name = "Raymond",

[ValidateNotNullOrEmpty()]

```powershell
[string[]]$Place = "India"
)
Write-Verbose -Message "Welcoming Our Guest"
Write-host "Welcome Mr. $Name to $place"
}
```

######## Ensure that parameter Value is Selected out of Some predefined Values Only #####

```powershell
Function Write-Welcome
{
[CmdletBinding(SupportsShouldProcess)]
param (
#[Parameter(Mandatory)]
[ValidateSet("Services","Process","Events")]
[string[]]$Item = ("Services","Process","Events")
)
Switch($item)
    {
    Services{
            Write-Host "Listing first 5 Services" -ForegroundColor Green
            Get-Service|select -First 5
            }
    Process{
            Write-Host "Listing first 5 Processes" -ForegroundColor Green
            Get-Process|select -First 5
            }
    events{
            Write-Host "Listing first 5 Events" -ForegroundColor Green
            Get-EventLog -LogName Application|select -First 5}
            }
}

Write-Welcome -Item Events
```

#################### Defining Option for Single or Multiple Values

```powershell
Function Write-Welcome
{
[CmdletBinding(SupportsShouldProcess)]
param (
[Parameter(Mandatory)]
[string]$name)
Write-host "Welcome Mr $Name"
}

Write-Welcome -name ("a","b")
Write-Welcome -name a
```