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Lab 10 - ITE315/Scripting

Part 1

```
param ([string] $file=$(throw "Please specify a filename."))
(Get-Command $file).Definition
```

\\Mac\Home\Documents\GitHub\school\ITE315-Scripting\Lab10\lab10.part01.ps1

Part 2

```
param( [string]$computer = "." )

$free = ( Get-WMIObject Win32_OperatingSystem -ComputerName
$computer ).FreePhysicalMemory * 1KB
$phys = ( Get-WMIObject Win32_OperatingSystem -ComputerName
$computer ).TotalVisibleMemorySize * 1KB
if( $computer -ne "." ) {
  Write-Host
  Write-Host "Computer: $computer"
}

# Table Header
Write-Host
Write-Host "Physical memory".PadRight( 16, " " ) -NoNewline
Write-Host "Bytes".PadLeft( 14, " " ) -NoNewline
Write-Host "KB".PadLeft( 11, " " ) -NoNewline
Write-Host "MB".PadLeft( 8, " " )
Write-Host ( "=" * 49 )
# Table rows
Write-Host "Available".PadRight( 16, " " ) -NoNewline
Write-Host ([string]$free).PadLeft( 14, " " ) -NoNewline
Write-Host ([string][int]($free / 1KB)).PadLeft( 11, " " ) -NoNewline
Write-Host ([string][int]($free / 1MB)).PadLeft( 8, " " )
Write-Host "Total".PadRight( 16, " " ) -NoNewline
Write-Host ([string]$phys).PadLeft( 14, " " ) -NoNewline
Write-Host ([string][int]($phys / 1KB)).PadLeft( 11, " " ) -NoNewline
Write-Host ([string][int]($phys / 1MB)).PadLeft( 8, " " )
Write-Host
```

Physical memory	Bytes	KB	MB
===			
Available	2136104960	2086040	2037
Total	4276637696	4176404	4079

Part 03

```
param ([string]$arg = "")
if (( $arg -ne "" ) -or ( $HOME[0] -eq "/" )) {
  Write-Host
  Write-Host "BootState.ps1, Version 1.00"
  Write-Host "Show Windows' bootstate"
  Write-Host
  Write-Host "Usage:    PowerShell  . 'BootState.ps1'"
  Write-Host
  Write-Host "Notes:    Boot State is returned as string and as return code
(`"errorlevel`"):"
  Write-Host "`"Normal`" (errorlevel = 0)"
  Write-Host "`"Safe mode`" (errorlevel = 1)"
  Write-Host "`"Safe mode with network`" (errorlevel=2)"
  Write-Host "`"Windows PE`" (errorlevel=3)"
  Write-Host "In case of (command line) errors, the errorlevel will be -1."
  Write-Host "This script is written for Windows only."
  exit -1
}

if ( Test-Path "HKLM:\SYSTEM\ControlSet001\Control\MiniNT" ) {
    Write-Host "Windows PE"
}

foreach ( $computer in Get-WmiObject -Class Win32_ComputerSystem ) {
    switch ( $computer.BootupState ) {
        "Normal boot" {
            Write-Host "Normal"
            exit 0
        }
        "Fail-safe boot" {
            Write-Host "Safe mode"
            exit 1
        }
        "Fail-safe with network boot" {
            Write-Host "Safe mode with network"
            exit 2
        }
    }
}

Write-Host "Unknown"
exit -1

Normal
```