

```
rem Mod1_PCTests.cmd
rem Kevin O'Neal
rem Comp230
rem 12-2-2012
rem Professor Hopkins

:: Run PC_Tests.vbs
echo off

:start
cls
echo          Computer System Analysis
echo. & echo.
echo [1] Check System Information
echo [2] Check System Memory
echo [3] Check Operating System Version
echo [4] Check Printers Status
echo [5] Check Logical Drive Information
echo [x] Exit Program"
echo.
set /p choice="Enter the Number of your Choice .... "
if %choice% equ x exit
if %choice% equ X exit
cscript //nologo Mod1_PCTests.vbs %choice%
echo.
pause
goto start
```

```

' Mod1_PCTests.vbs
' Kevin O'Neal
' Comp230
' 12-2-2012
' Professor Hopkins
' =====
' Menu Driven Computer / Network Tests
' This VBScript program is run using the PC_Tests.cmd Batch Script
Set args = WScript.Arguments
WScript.Echo vbCrLf

' Select case from Mod1_PCTests.cmd and call subs.
Select Case args.Item(0)
    Case "1"
        Call System_Information
    Case "2"
        Call System_Memeory_Size
    Case "3"
        Call OS_Version
    Case "4"
        Call Printers_Status
    Case "5"
        Call Logical_HDD_Information
    Case Else
        WScript.Echo chr(7) & chr(7) & "Error, Choices are 1,2,3,4,5 or x!!"
' Error check.
End Select

' System Information subroutine.
Sub System_Information
    Set WshShell = WScript.CreateObject("WScript.Shell")
    WScript.Echo "The computer name is ..... " & _
    WshShell.ExpandEnvironmentStrings("%COMPUTERNAME%")
    WScript.Echo "The Num of CPUs is ..... " & _
    WshShell.ExpandEnvironmentStrings("%NUMBER_OF_PROCESSORS%")
    WScript.Echo "The Processor Architecture is ... " & _
    WshShell.ExpandEnvironmentStrings("%PROCESSOR_ARCHITECTURE%")
End Sub

' Memory size subroutine.
Sub System_Memeory_Size
    strComputer = "."
    Set objWMIService = GetObject _
    ("winmgmts:\\." & strComputer & "\root\CIMV2")
    Set colComputer = objWMIService.ExecQuery _
    ("Select * from Win32_ComputerSystem")
    For Each objComputer in colComputer
        intRamMB = int((objComputer.TotalPhysicalMemory) /1048576)+1
        Wscript.Echo "System Name ..... " & objComputer.Name _
        & vbCrLf & "Total RAM ..... " & intRamMB & " MBytes."
    Next

```

End Sub

' Operating system version subroutine.

Sub OS\_Version

    strComputer = "."

    Set objWMIService = GetObject \_  
        ("winmgmts:\\\" & strComputer & "\root\CIMV2")

    Set colOperatingSystems = objWMIService.ExecQuery \_  
        ("Select \* from Win32\_OperatingSystem")

    WScript.Echo "The Operating System Detected is Shown Below:" & vbCrLf

    For Each objOperatingSystem in colOperatingSystems  
        WScript.Echo objOperatingSystem.Caption & "Version: " & \_  
            objOperatingSystem.Version

    Next

End Sub

' Printer information subroutine.

Sub Printers\_Status

    strComputer = "."

    intPrinters = 1

    Set objWMIService = GetObject \_  
        ("winmgmts:\\\" & strComputer & "\root\CIMV2")

    Set colItems = objWMIService.ExecQuery \_  
        ("SELECT \* FROM Win32\_Printer")

    WScript.Sleep(1000)

    For Each objItem In colItems

        WScript.Echo  
        "Printer: " & objItem.DeviceID & vbCrLf & \_  
        "=====" & vbCrLf & \_  
        "Driver Name ..... " & objItem.DriverName & vbCrLf & \_  
        "Port Name ..... " & objItem.PortName & vbCrLf & \_  
        "Printer State ..... " & objItem.PrinterState & vbCrLf & \_  
        "Printer Status ..... " & objItem.PrinterStatus & vbCrLf & \_  
        "Print Processor ..... " & objItem.PrintProcessor & vbCrLf & \_  
        "Spool Enabled ..... " & objItem.SpoolEnabled & vbCrLf & \_  
        "Shared ..... " & objItem.Shared & vbCrLf & \_  
        "ShareName ..... " & objItem.ShareName & vbCrLf & \_  
        "Horizontal Res ..... " & objItem.HorizontalResolution & vbCrLf & \_  
        "Vertical Res ..... " & objItem.VerticalResolution & vbCrLf & \_  
        intPrinters = intPrinters + 1

    Next

End Sub

' Harddrive information subroutine.

Sub Logical\_HDD\_Information

    strComputer = "."

    Set objWMIService = GetObject \_  
        ("winmgmts:\\\" & strComputer & "\root\cimv2")

    Set colItems = objWMIService.ExecQuery \_  
        ("Select \* from Win32\_LogicalDisk Where FreeSpace > 0")

    For Each objItem in colItems

        WScript.Echo vbCrLf & \_  
        "=====" & vbCrLf & \_  
        "Drive Letter ..... " & objItem.Name & vbCrLf & \_  
        "Description ..... " & objItem.Description & vbCrLf & \_  
        "Volume Name ..... " & objItem.VolumeName & vbCrLf & \_  
        "Drive Type ..... " & objItem.DriveType & vbCrLf & \_  
        "Media Type ..... " & objItem.MediaType & vbCrLf & \_

```
        "VolumeSerialNumber ... " & objItem.VolumeSerialNumber & vbCrLf & _
        "Size ..... " & Int(objItem.Size /1073741824) & " GB" & vbCrLf
    & _
        "Free Space ..... " & Int(objItem.FreeSpace /1073741824) & " GB"
    Next
End Sub
```