Answer the following questions and post the answers to Blackboard:

1. Described what is returned by each of the following commands:

\*Each command returns the environment variable items contained in two columns NAME and VALUE:

a. Get-Item env:\username

Returns the item NAME called username along with the VALUE of the system’s username of the current account that is logged in

Ex: NAME: VALUE

--------- ----------

USERNAME millm\_000

b. Get-Item env:\Computername

Returns the item NAME called computername along with the VALUE of the system’s name

Ex: NAME: VALUE

--------- ----------

COMPUTERNAME MILLMARC92

c. Get-ChildItem env:\userprofile

Returns the item NAME called userprofile along with the VALUE of the path to system’s profile that is currently logged on

Ex: NAME: VALUE

--------- ----------

USERPROFILE C:\Users\millm\_000

2. How would you change the commands in #1 to return only the value (look at the help information)?

a. (Get-Item env:\username).value

b. (Get-Item env:\Computername).value

c. (Get-ChildItem env:\userprofile).value

3. How can you get the current date and time from the system within Powershell?

a. Get-Date

4. Describe the result of Get-WmiObject -Class for each of the following classes (see here or the help information for Get-WmiObject syntax).

a. Win32\_ComputerSystem

Domain : WORKGROUP

Manufacturer : ASUSTeK COMPU

Model : Q550LF

Name : MILLMARC92

PrimaryOwnerName : millmarc92@ho

TotalPhysicalMemory : 17057292288

b. Win32\_BootConfiguration

BootDirectory Name SettingID Caption

------------- ---- --------- -------

C:\WINDOWS BootConfiguration \Device\Harddisk0\Partition2

c. Win32\_BIOS

SMBIOSBIOSVersion : Q550LF.212

Manufacturer : American Megatren

Name : Q550LF.212

SerialNumber : E4N0CY53051518H

Version : \_ASUS\_ - 1072009

d. Win32\_OperatingSystem

SystemDirectory : C:\WINDOWS\system32

Organization :

BuildNumber : 14393

RegisteredUser : millmarc92@hotmail.com

SerialNumber : 00328-00204-20773-AA042

Version : 10.0.14393

e. Win32\_TimeZone

Bias SettingID Caption

---- --------- -------

-300 (UTC-05:00) Eastern Time (US & Canada)

f. Win32\_LogicalDisk

DeviceID : C:

DriveType : 3

ProviderName :

FreeSpace : 195290099712

Size : 977534971904

VolumeName : OS

DeviceID : D:

DriveType : 5

ProviderName :

FreeSpace : 0

Size : 225224704

VolumeName : HR Block 2013

f.1. Add “-Filter DriveType=3”

DeviceID : C:

DriveType : 3

ProviderName :

FreeSpace : 195289325568

Size : 977534971904

VolumeName : OS

g. Win32\_Processor

Caption : Intel64 Family 6 Model 69 Stepping 1

DeviceID : CPU0

Manufacturer : GenuineIntel

MaxClockSpeed : 2401

Name : Intel(R) Core(TM) i7-4500U CPU @ 1.80GHz

SocketDesignation : SOCKET 0

h. Win32\_PhysicalMemory

\_\_GENUS : 2

\_\_CLASS : Win32\_PhysicalMemory

\_\_SUPERCLASS : CIM\_PhysicalMemory

\_\_DYNASTY : CIM\_ManagedSystemElement

\_\_RELPATH : Win32\_PhysicalMemory.Tag="Physical Memory 0"

\_\_PROPERTY\_COUNT : 36

\_\_DERIVATION : {CIM\_PhysicalMemory, CIM\_Chip, CIM\_PhysicalComponent, CIM\_PhysicalElement...}

\_\_SERVER : MILLMARC92

\_\_NAMESPACE : root\cimv2

\_\_PATH : \\MILLMARC92\root\cimv2:Win32\_PhysicalMemory.Tag="Physical Memory 0"

Attributes : 2

BankLabel : BANK 0

Capacity : 8589934592

Caption : Physical Memory

ConfiguredClockSpeed : 1600

ConfiguredVoltage :

CreationClassName : Win32\_PhysicalMemory

DataWidth : 64

Description : Physical Memory

DeviceLocator : ChannelA-DIMM0

FormFactor : 12

HotSwappable :

InstallDate :

InterleaveDataDepth :

InterleavePosition :

Manufacturer : 1315

MaxVoltage :

MemoryType : 24

MinVoltage :

Model :

Name : Physical Memory

OtherIdentifyingInfo :

PartNumber : CT102464BF160B.M16

PositionInRow :

PoweredOn :

Removable :

Replaceable :

SerialNumber : E052BD9A

SKU :

SMBIOSMemoryType : 24

Speed : 1600

Status :

Tag : Physical Memory 0

TotalWidth : 64

TypeDetail : 128

Version :

PSComputerName : MILLMARC92

\_\_GENUS : 2

\_\_CLASS : Win32\_PhysicalMemory

\_\_SUPERCLASS : CIM\_PhysicalMemory

\_\_DYNASTY : CIM\_ManagedSystemElement

\_\_RELPATH : Win32\_PhysicalMemory.Tag="Physical Memory 2"

\_\_PROPERTY\_COUNT : 36

\_\_DERIVATION : {CIM\_PhysicalMemory, CIM\_Chip, CIM\_PhysicalComponent, CIM\_PhysicalElement...}

\_\_SERVER : MILLMARC92

\_\_NAMESPACE : root\cimv2

\_\_PATH : \\MILLMARC92\root\cimv2:Win32\_PhysicalMemory.Tag="Physical Memory 2"

Attributes : 2

BankLabel : BANK 2

Capacity : 8589934592

Caption : Physical Memory

ConfiguredClockSpeed : 1600

ConfiguredVoltage :

CreationClassName : Win32\_PhysicalMemory

DataWidth : 64

Description : Physical Memory

DeviceLocator : ChannelB-DIMM0

FormFactor : 12

HotSwappable :

InstallDate :

InterleaveDataDepth :

InterleavePosition :

Manufacturer : 1315

MaxVoltage :

MemoryType : 24

MinVoltage :

Model :

Name : Physical Memory

OtherIdentifyingInfo :

PartNumber : CT102464BF160B.M16

PositionInRow :

PoweredOn :

Removable :

Replaceable :

SerialNumber : E052BD9B

SKU :

SMBIOSMemoryType : 24

Speed : 1600

Status :

Tag : Physical Memory 2

TotalWidth : 64

TypeDetail : 128

Version :

PSComputerName : MILLMARC92

i. Win32\_Product

IdentifyingNumber : {C7D63030-7738-499A-A0D2-8549174D2B70}

Name : Python 3.6.0 Tcl/Tk Support (32-bit)

Vendor : Python Software Foundation

Version : 3.6.150.0

Caption : Python 3.6.0 Tcl/Tk Support (32-bit)

IdentifyingNumber : {3C182441-3C75-4113-A28D-D3AEAD85B320}

Name : Python 3.6.0 Executables (32-bit)

Vendor : Python Software Foundation

Version : 3.6.150.0

Caption : Python 3.6.0 Executables (32-bit)

IdentifyingNumber : {F2A430F2-A7AC-4B46-808A-FC6E8419ABDE}

Name : Python 3.6.0 Development Libraries (32-bit)

Vendor : Python Software Foundation

Version : 3.6.150.0

Caption : Python 3.6.0 Development Libraries (32-bit)

IdentifyingNumber : {1D427483-31FE-4ED4-AD39-AB78BBF7D22D}

Name : Python 3.6.0 pip Bootstrap (32-bit)

Vendor : Python Software Foundation

Version : 3.6.150.0

Caption : Python 3.6.0 pip Bootstrap (32-bit)

IdentifyingNumber : {A66771E3-430A-40A7-B00C-94A239396BEE}

Name : Python 3.6.0 Documentation (32-bit)

Vendor : Python Software Foundation

Version : 3.6.150.0

Caption : Python 3.6.0 Documentation (32-bit)

IdentifyingNumber : {FC638B75-E969-4496-A546-9D78EA7D8F35}

Name : Python 3.6.0 Core Interpreter (32-bit)

Vendor : Python Software Foundation

Version : 3.6.150.0

Caption : Python 3.6.0 Core Interpreter (32-bit)

IdentifyingNumber : {6EAD5F85-97EC-4AFB-84D2-D52AC41D3C66}

Name : Python 3.6.0 Test Suite (32-bit)

Vendor : Python Software Foundation

Version : 3.6.150.0

Caption : Python 3.6.0 Test Suite (32-bit)

IdentifyingNumber : {9A2405F5-B19D-4554-9267-195044C7884E}

Name : SSIRuntimeServiceInstaller

Vendor : SSIRuntimeServiceInstaller

Version : 1.0.0.0

Caption : SSIRuntimeServiceInstaller

IdentifyingNumber : {BF6379E6-9936-46B0-B6AC-C56EE3987D2E}

Name : inSSIDer

Vendor : MetaGeek

Version : 2.1.1

Caption : inSSIDer

IdentifyingNumber : {1D261CD8-822F-4FC0-BE6D-D9EB57D625AE}

Name : REA's TESTware for the CLEP Biology

Vendor : REA, Inc.

Version : 1.3.14

Caption : REA's TESTware for the CLEP Biology

IdentifyingNumber : {860898E9-D847-4E01-BB13-49373DCACCCE}

Name : SSI SRP Diagnostics

Vendor : Software Secure, Inc.

Version : 1.0.0.0

Caption : SSI SRP Diagnostics

IdentifyingNumber : {99D3B7F9-A963-4472-8744-01DA176BD4C3}

Name : MP3 Skype recorder

Vendor : Domit LTD

Version : 4.16.1.0

Caption : MP3 Skype recorder

IdentifyingNumber : {9F573FEA-E9C0-4AA5-B14C-943AB9FD25EA}

Name : InstallRoot

Vendor : DoD PKE

Version : 5.0

Caption : InstallRoot

IdentifyingNumber : {4FECF3FA-BA20-45C5-8619-FE9B291BCE47}

Name :

Vendor :

Version :

Caption :

IdentifyingNumber : {90160000-008C-0409-0000-0000000FF1CE}

Name : Office 16 Click-to-Run Localization Component

Vendor : Microsoft Corporation

Version : 16.0.7668.2066

Caption : Office 16 Click-to-Run Localization Component

IdentifyingNumber : {90160000-00DD-0000-1000-0000000FF1CE}

Name : Office 16 Click-to-Run Extensibility Component 64-bit Registration

Vendor : Microsoft Corporation

Version : 16.0.7766.2047

Caption : Office 16 Click-to-Run Extensibility Component 64-bit Registration

IdentifyingNumber : {90160000-008F-0000-1000-0000000FF1CE}

Name : Office 16 Click-to-Run Licensing Component

Vendor : Microsoft Corporation

Version : 16.0.7766.2047

Caption : Office 16 Click-to-Run Licensing Component

IdentifyingNumber : {D1893000-EA77-493C-8DDD-E262436E959B}

Name : Windows Live SOXE Definitions

Vendor : Microsoft Corporation

Version : 16.4.3528.0331

Caption : Windows Live SOXE Definitions

IdentifyingNumber : {C3F6F200-6D7B-4879-B9EE-700C0CE1FCDA}

Name : Microsoft SQL Server System CLR Types

Vendor : Microsoft Corporation

Version : 10.51.2500.0

Caption : Microsoft SQL Server System CLR Types

IdentifyingNumber : {6A0C6700-EA93-372C-8871-DCCF13D160A4}

Name : Microsoft .NET Framework 4.5.1 Multi-Targeting Pack

Vendor : Microsoft Corporation

Version : 4.5.50932

Caption : Microsoft .NET Framework 4.5.1 Multi-Targeting Pack

IdentifyingNumber : {CDC1AB00-01FF-4FC7-816A-16C67F0923C0}

Name : Windows Live SOXE

Vendor : Microsoft Corporation

Version : 16.4.3528.0331

Caption : Windows Live SOXE

IdentifyingNumber : {29A56A10-FEB1-4B4F-99DA-8DE4108AA1D8}

Name : SQL Server 2016 Management Studio for Reporting Services Localization

Vendor : Microsoft Corporation

Version : 13.0.16106.4

Caption : SQL Server 2016 Management Studio for Reporting Services Localization

IdentifyingNumber : {290FC320-2F5A-329E-8840-C4193BD7A9EE}

Name : Microsoft .NET Framework 4.5.2 Multi-Targeting Pack (ENU)

Vendor : Microsoft Corporation

Version : 4.5.51209

Caption : Microsoft .NET Framework 4.5.2 Multi-Targeting Pack (ENU)

IdentifyingNumber : {FCC6E820-B5DB-454E-96E3-B6182DDEEC8D}

Name : Microsoft Visual Studio 2015 Performance Collection Tools

Vendor : Microsoft Corporation

Version : 14.0.23107

Caption : Microsoft Visual Studio 2015 Performance Collection Tools

IdentifyingNumber : {5CD96030-DA11-3D1F-9C1B-41E1534000CE}

Name : Visual C++ MSBuild Base Package

Vendor : Microsoft Corporation

Version : 14.0.24720

Caption : Visual C++ MSBuild Base Package

IdentifyingNumber : {E5748D30-7E6D-3A8E-BFE6-C1D02C6DDABB}

Name : Microsoft Help Viewer 1.1

Vendor : Microsoft Corporation

Version : 1.1.40219

Caption : Microsoft Help Viewer 1.1

IdentifyingNumber : {3AE40040-2F48-4617-9228-49E999738BDB}

Name : Microsoft Visual Studio 2015 Performance Collection Tools - ENU

Vendor : Microsoft Corporation

Version : 14.0.23107

Caption : Microsoft Visual Studio 2015 Performance Collection Tools - ENU

IdentifyingNumber : {9478E350-F157-4724-AE17-6ADA0E9E2351}

Name : SQL Server 2016 Client Tools

Vendor : Microsoft Corporation

Version : 13.0.14500.10

Caption : SQL Server 2016 Client Tools

IdentifyingNumber : {4D1AB460-EBA5-3612-BCEC-F0BD1510A715}

Name : Visual C++ IDE Core Professional Plus Resource Package

Vendor : Microsoft Corporation

Version : 14.0.24720

Caption : Visual C++ IDE Core Professional Plus Resource Package

IdentifyingNumber : {DE064F60-6522-3310-9665-B5E3E78B3638}

Name : Microsoft Visual Studio Community 2015

Vendor : Microsoft Corporation

Version : 14.0.23107

Caption : Microsoft Visual Studio Community 2015

IdentifyingNumber : {E6D09370-D4B1-3421-A0F6-45DF6999EBED}

Name : Visual C++ IDE Base Resource Package

Vendor : Microsoft Corporation

Version : 14.0.23107

Caption : Visual C++ IDE Base Resource Package

IdentifyingNumber : {0F974770-76EB-4C38-986E-E7BDD9C0DFC4}

Name : Windows Live Writer Resources

Vendor : Microsoft Corporation

Version : 16.4.3528.0331

Caption : Windows Live Writer Resources

IdentifyingNumber : {D2194770-9749-4C21-84F2-DC2DC737A72E}

Name : Microsoft Visual Studio 2015 Windows Diagnostic Tools

Vendor : Microsoft Corporation

Version : 14.0.24720

Caption : Microsoft Visual Studio 2015 Windows Diagnostic Tools

IdentifyingNumber : {07EF3970-F8E5-4A27-A5A3-230484D35026}

Name : Microsoft Expression Encoder 4

Vendor : Microsoft Corporation

Version : 4.0.1639.0

Caption : Microsoft Expression Encoder 4

IdentifyingNumber : {446D0B70-F98E-39DA-9CB5-4201D05A91C6}

Name : Microsoft Visual Studio 2015 Shell (Isolated) Resources

Vendor : Microsoft Corporation

Version : 14.0.23107

Caption : Microsoft Visual Studio 2015 Shell (Isolated) Resources

IdentifyingNumber : {8C775E70-A791-4DA8-BCC3-6AB7136F4484}

Name : Visual Studio 2012 x64 Redistributables

Vendor : AVG Technologies

Version : 14.0.0.1

Caption : Visual Studio 2012 x64 Redistributables