Advanced Scripting   
Types

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# Instructions

Save a copy of this document. Answer all questions directly in this document. You will save and upload this completed document as your homework submission.

# Overview

This exercise will give you experience working with types in PowerShell. Since you are getting well-seasoned in PowerShell, I’ll just ask questions rather than tell you each command. For each question, record the PowerShell command(s) you used to answer the question. Have fun.

# Requirements

PowerShell

# Task 1—Explore types

## Steps

1. Given the following PowerShell expressions   
   5kb\*1gb
   1. What data type is returned?System.Double
      1. PowerShell Command(s) $a=5kb\*1gb, $a.gettype().fullname
   2. What is the minimum value of the returned data type? [blank]
      1. PowerShell Command(s) 5kb\*1gb | Measure-Object
   3. What is the maximum value of the returned data type? [blank]
      1. PowerShell Command(s) 5kb\*1gb | Measure-Object
2. How many static members does the [int] type have? 6
   1. PowerShell Command(s) [int] | Get-Member -Static
3. What is the FullName of the [long] type? System.RuntimeType
   1. PowerShell Command(s) [long].gettype().fullname
4. Does the [long] type allow negative numbers? yes
   1. PowerShell Command(s) [long]|Get-Member
5. How many members does the string object support (both static and instance)? 131
   1. PowerShell Command(s) [string]|Get-Member |Measure
6. Write a PowerShell command to remove the leading and trailing spaces from the string ' I Love PowerShell '
   1. PowerShell Command(s) $string=' I Love Powershell ' $string.Trim()
7. How many types have the word cryptography in them on your system? 686
   1. PowerShell Command(s) [System.Appdomain]::CurrentDomain.GetAssemblies().GetTypes()|Select-String cryptography |measure
8. Is [string] a reference or value type? reference
   1. PowerShell Command(s) [string]
9. What type is returned from the hex value DEADBEEF? [int]
   1. PowerShell Command(s) 0xdeadbeef.gettype()
10. What is the numeric value for the hex value DEADBEEF? -559038737
    1. PowerShell Command(s) 0xdeadbeef
11. What is the type retuned from the command get-process System.Diagnostics.Process
    1. PowerShell Command(s) get-process|get-member

# Task 2—Concepts

1. What is the purpose of a here-string? Input field for redirection.
2. Describe the difference in behavior of single quoted strings vs double quoted string, include pros and cons. Literal strings are single quote, strong for just quick strings, weak for importing information. While double quoted allow for variables to be on display inside the string, little bit harder to set up.
3. Describe the difference between a reference type and a value type. Value type holds information, while a reference type points towards where it is held

# Deliverable

Upload this document with completed answers to i-learn.