Advanced Scripting   
Operators-Format

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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

The -f operator is used to create formatted output. It is culture aware and has a lot of flexibility with prebuilt formats and custom formats. In reality this is just a handy way to use the static Format() method of the .NET String class.

# Requirements

PowerShell

# Setup

PowerShell

# Task 1—Using the -f operator

The -f operator replaces a format token with a value where that token is placed in the string. They are kind of like variables in an expansion string in PowerShell. However, the tokens in the format string can have formatting information added to display the data in meaningful ways.

## Steps

1. Earlier you have been taught how to use expansion strings. Enter:  
   "Hi today is $(get-date)"
   1. What was returned? Hi today is 10/13/2021 18:17:19
2. Use the format operator to format the current date and time in a string  
   'Hi today is {0}' -f (get-date)
   1. What was returned Hi today is 10/13/2021 6:19:34
3. Notice the subtle differences. The token in the string formatter takes the generic form {<index>,alignment:<format string>). Using the string formatter, let’s get rid of the time component.  
   'Hi today is {0:d}' -f (get-date)
   1. What was returned? Hi today is 10/13/2021
4. You can have multiple variables in the format string.  
   $quan=5  
   $item='ducks'  
   $price=7.77   
   '{0} {1} at {2:c} each costs {3:c}' -f $quan, $item, $price, ($price\*$quan)
5. Or you can use the same variable more than once  
   'Hi today is {0:d} at {0:t}' -f (get-date)

# Task 2—Lots of format options

There are a lot of format options. Use the help documentation on Microsoft’s site to write formats for the following tasks.

## Steps

1. Write a format that will display the value in $p with a leading zero and decimal places  
   $p=.75
   1. Format command ([string]$p).PadLeft(4, ‘0’)
2. Write a format that will display the current date with the month, day and year as two digits (e.g 12/25/20)
   1. Format command Get-Date -Format “MM/dd/yy”

# Deliverable

Upload this document with completed answers to i-learn.