

LAB 1 DOS COMMANDS Kiauna Newman

1.1 DOS BASICS

```
c:\ Command Prompt - time
09/02/2017 11:40 AM <DIR> AppData
09/02/2017 11:40 AM <JUNCTION> Application Data [D:\Users\knewman1\AppData\Roaming]
09/02/2017 11:40 AM <DIR> Contacts
09/02/2017 11:40 AM <JUNCTION> Cookies [D:\Users\knewman1\AppData\Local\Microsoft\Windows\INetCookies]
09/02/2017 11:40 AM <DIR> Desktop
09/02/2017 11:40 AM <DIR> Documents
09/02/2017 11:40 AM <DIR> Downloads
09/02/2017 11:40 AM <DIR> Favorites
09/02/2017 11:40 AM <DIR> Links
09/02/2017 11:40 AM <JUNCTION> Local Settings [D:\Users\knewman1\AppData\Local]
09/02/2017 11:40 AM <DIR> Music
09/02/2017 11:40 AM <JUNCTION> My Documents [D:\Users\knewman1\Documents]
09/02/2017 11:40 AM <JUNCTION> NetHood [D:\Users\knewman1\AppData\Roaming\Microsoft\Windows\Network Shortcuts]
09/03/2017 01:32 PM <DIR> OneDrive
09/02/2017 11:40 AM <DIR> Pictures
09/02/2017 11:40 AM <JUNCTION> PrintHood [D:\Users\knewman1\AppData\Roaming\Microsoft\Windows\Printer Shortcuts]

09/02/2017 11:40 AM <JUNCTION> Recent [D:\Users\knewman1\AppData\Roaming\Microsoft\Windows\Recent]
09/02/2017 11:40 AM <DIR> Saved Games
09/02/2017 11:40 AM <DIR> Searches
09/02/2017 11:40 AM <JUNCTION> SendTo [D:\Users\knewman1\AppData\Roaming\Microsoft\Windows\SendTo]
09/02/2017 11:40 AM <JUNCTION> Start Menu [D:\Users\knewman1\AppData\Roaming\Microsoft\Windows\Start Menu]
09/02/2017 11:40 AM <JUNCTION> Templates [D:\Users\knewman1\AppData\Roaming\Microsoft\Windows\Templates]
09/02/2017 11:40 AM <DIR> Videos
    0 File(s)          0 bytes
  25 Dir(s)  1,801,089,024 bytes free

D:\Users\knewman1>time
The current time is: 13:39:02.85
Enter the new time: _
```



```
c:\ Command Prompt
        14 Dir(s)  1,801,089,024 bytes free

D:\Users\knewman1>dir/os
Volume in drive D is PersistentDataDisk
Volume Serial Number is 382F-E342

Directory of D:\Users\knewman1

09/02/2017 11:41 AM <DIR> .
09/02/2017 11:41 AM <DIR> ..
09/02/2017 11:40 AM <DIR> Contacts
09/02/2017 11:40 AM <DIR> Desktop
09/02/2017 11:40 AM <DIR> Documents
09/02/2017 11:40 AM <DIR> Downloads
09/02/2017 11:40 AM <DIR> Favorites
09/02/2017 11:40 AM <DIR> Links
09/02/2017 11:40 AM <DIR> Music
09/03/2017 01:32 PM <DIR> OneDrive
09/02/2017 11:40 AM <DIR> Pictures
09/02/2017 11:40 AM <DIR> Saved Games
09/02/2017 11:40 AM <DIR> Searches
09/02/2017 11:40 AM <DIR> Videos
    0 File(s)          0 bytes
  14 Dir(s)  1,801,089,024 bytes free

D:\Users\knewman1>time
The current time is: 13:42:43.22
Enter the new time:

D:\Users\knewman1>
```

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```
C:\ Command Prompt
TITLE      Sets the window title for a CMD.EXE session.
TREE       Graphically displays the directory structure of a drive or
          path.
TYPE       Displays the contents of a text file.
VER        Displays the Windows version.
VERIFY     Tells Windows whether to verify that your files are written
          correctly to a disk.
VOL        Displays a disk volume label and serial number.
XCOPY      Copies files and directory trees.
WMIC       Displays WMI information inside interactive command shell.

For more information on tools see the command-line reference in the online help.

D:\Users\knewman1>help time
Displays or sets the system time.

TIME [/T | time]
Type TIME with no parameters to display the current time setting and a prompt
for a new one. Press ENTER to keep the same time.

If Command Extensions are enabled the TIME command supports
the /T switch which tells the command to just output the
current time, without prompting for a new time.

D:\Users\knewman1>time
The current time is: 13:44:27.45
Enter the new time:

D:\Users\knewman1>
```

```
C:\ Command Prompt
D:\Users\knewman1>mkdir KiaunaNewman
D:\Users\knewman1>KiaunaNewmanTextFile - Notepad
D:\Users\knewman1>Stuff
File Edit Format View Help
D:\Users\knewman1>Volume
Volume
D:\Users\knewman1>Dir
9/03/2017  10:44 AM   KiaunaNewman
D:\Users\knewman1>D:\Users\knewman1>
```

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```
Command Prompt

D:\Users\knewman1>cd KiaunaNewman

D:\Users\knewman1\KiaunaNewman>
D:\Users\knewman1\KiaunaNewman>dir
Volume in drive D is PersistentDataDisk
Volume Serial Number is 382F-E342

Directory of D:\Users\knewman1\KiaunaNewman

09/03/2017  01:46 PM    <DIR>      .
09/03/2017  01:46 PM    <DIR>      ..
09/03/2017            0 File(s)   0 bytes
2 Dir(s)   1,801,089,024 bytes free

D:\Users\knewman1\KiaunaNewman>notepad KiaunaNewmanTextFile.txt

D:\Users\knewman1\KiaunaNewman>dir
Volume in drive D is PersistentDataDisk
Volume Serial Number is 382F-E342

Directory of D:\Users\knewman1\KiaunaNewman

09/03/2017  01:50 PM    <DIR>      .
09/03/2017  01:50 PM    <DIR>      ..
09/03/2017  01:55 PM           11 KiaunaNewmanTextFile.txt
09/03/2017            1 File(s)  11 bytes
2 Dir(s)   1,801,035,776 bytes free

D:\Users\knewman1\KiaunaNewman>

Command Prompt

Directory of D:\Users\knewman1\KiaunaNewman

09/03/2017  01:57 PM    <DIR>      .
09/03/2017  01:57 PM    <DIR>      ..
09/03/2017  01:55 PM           11 KiaunaNewmanCopy.txt
09/03/2017  01:55 PM           11 KiaunaNewmanTextFile.txt
09/03/2017            2 File(s)  22 bytes
2 Dir(s)   1,801,031,680 bytes free

D:\Users\knewman1\KiaunaNewman>type KiaunaNewmanCopy.txt
Stuff

D:\Users\knewman1\KiaunaNewman>del KiaunaNewmanCopy.txt

D:\Users\knewman1\KiaunaNewman>dir
Volume in drive D is PersistentDataDisk
Volume Serial Number is 382F-E342

Directory of D:\Users\knewman1\KiaunaNewman

09/03/2017  01:58 PM    <DIR>      .
09/03/2017  01:58 PM    <DIR>      ..
09/03/2017  01:55 PM           11 KiaunaNewmanTextFile.txt
09/03/2017            1 File(s)  11 bytes
2 Dir(s)   1,801,031,680 bytes free

D:\Users\knewman1\KiaunaNewman>
```

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```
c:\ Command Prompt
D:\Users\knewman1>rmdir KiaunaNewman
The directory is not empty.

cd D:\Users\knewman1>rmdir KiaunaNewman /S
KiaunaNewman, Are you sure (Y/N)? Y

D:\Users\knewman1>dir
Volume in drive D is PersistentDataDisk
Volume Serial Number is 382F-E342
Go
Chr Directory of D:\Users\knewman1

09/03/2017  02:02 PM    <DIR>      .
09/03/2017  02:02 PM    <DIR>      ..
09/02/2017  11:40 AM    <DIR>      Contacts
fas09/02/2017  11:40 AM    <DIR>      Desktop
09/02/2017  11:40 AM    <DIR>      Documents
09/02/2017  11:40 AM    <DIR>      Downloads
09/02/2017  11:40 AM    <DIR>      Favorites
09/02/2017  11:40 AM    <DIR>      Links
09/02/2017  11:40 AM    <DIR>      Music
09/03/2017  01:32 PM    <DIR>      OneDrive
09/02/2017  11:40 AM    <DIR>      Pictures
09/02/2017  11:40 AM    <DIR>      Saved Games
09/02/2017  11:40 AM    <DIR>      Searches
09/02/2017  11:40 AM    <DIR>      Videos
          0 File(s)      0 bytes
        14 Dir(s)   1,801,031,680 bytes free
D:\Users\knewman1>
```

```
c:\ Command Prompt
D:\Users\knewman1>dir
Volume in drive D is PersistentDataDisk
Volume Serial Number is 382F-E342
ed
Go
Chr09/02/2017  11:40 AM    <DIR>      Desktop
Chr09/02/2017  11:40 AM    <DIR>      Documents
09/02/2017  11:40 AM    <DIR>      Downloads
09/02/2017  11:40 AM    <DIR>      Favorites
09/02/2017  11:40 AM    <DIR>      Links
09/02/2017  11:40 AM    <DIR>      Music
fas09/03/2017  01:32 PM    <DIR>      OneDrive
09/02/2017  11:40 AM    <DIR>      Pictures
09/02/2017  11:40 AM    <DIR>      Saved Games
09/02/2017  11:40 AM    <DIR>      Searches
09/02/2017  11:40 AM    <DIR>      Videos
          0 File(s)      0 bytes
        14 Dir(s)   1,801,031,680 bytes free
D:\Users\knewman1>mkdir KiaunaNewman
D:\Users\knewman1>
```

LAB 1 DOS COMMANDS Kiauna Newman

```
Command Prompt
(c) 2015 Microsoft Corporation. All rights reserved.

D:\Users\knewman1>dir
Volume in drive D is PersistentDataDisk
Volume Serial Number is 382F-E342

Directory of D:\Users\knewman1

09/02/2017  11:41 AM    <DIR>        .
09/02/2017  11:41 AM    <DIR>        ..
09/02/2017  11:40 AM    <DIR>        Contacts
09/02/2017  11:40 AM    <DIR>        Desktop
09/02/2017  11:40 AM    <DIR>        Documents
09/02/2017  11:40 AM    <DIR>        Downloads
09/02/2017  11:40 AM    <DIR>        Favorites
09/02/2017  11:40 AM    <DIR>        Links
09/02/2017  11:40 AM    <DIR>        Music
09/03/2017  01:32 PM    <DIR>        OneDrive
09/02/2017  11:40 AM    <DIR>        Pictures
09/02/2017  11:40 AM    <DIR>        Saved Games
09/02/2017  11:40 AM    <DIR>        Searches
09/02/2017  11:40 AM    <DIR>        Videos
               0 File(s)          0 bytes
           14 Dir(s)   1,801,383,936 bytes free

D:\Users\knewman1>time
The current time is: 13:34:51.10
Enter the new time:

D:\Users\knewman1>
```

1.2 IPCONFIG

```
Command Prompt
www.google.com
-----
Record Name . . . . : www.google.com
Record Type . . . . : 1
Time To Live . . . . : 37
Data Length . . . . : 4
Section . . . . . : Answer
A (Host) Record . . . : 172.217.9.36

nt7d120.ad.maryville.edu
-----
Record Name . . . . : NT7D120.ad.maryville.edu
Record Type . . . . : 1
Time To Live . . . . : 3570
Data Length . . . . : 4
Section . . . . . : Answer
A (Host) Record . . . : 10.1.1.43

w2k12r2dc04fy16.ad.maryville.edu
-----
Record Name . . . . : W2K12R2DC04FY16.ad.maryville.edu
Record Type . . . . : 1
Time To Live . . . . : 3570
Data Length . . . . : 4
Section . . . . . : Answer
A (Host) Record . . . : 10.1.1.4
```

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```
D:\> ipconfig /all
Windows IP Configuration

Ethernet adapter Ethernet 2:
  Connection-specific DNS Suffix  . : ad.maryville.edu
  Description . . . . . : Microsoft Network Connection
  Physical Address. . . . . : 00-0C-29-0A-00-00
  DHCP Enabled. . . . . : Yes
  Autoconfiguration Enabled . . . . . : Yes

Tunnel adapter isatap.ad.maryville.edu:
  Connection-specific DNS Suffix  . : ad.maryville.edu
  Description . . . . . : Microsoft ISATAP Adapter
  Physical Address. . . . . : 00-00-00-00-00-00
  DHCP Enabled. . . . . : No
  Autoconfiguration Enabled . . . . . : Yes

Tunnel adapter isatap.{03586045-C7E3-4B24-B382-FA354F1396F1}:
  Connection-specific DNS Suffix  . :
  Description . . . . . : Microsoft ISATAP Adapter #2
  Physical Address. . . . . : 00-00-00-00-00-00
  DHCP Enabled. . . . . : No
  Autoconfiguration Enabled . . . . . : Yes

D:\> ipconfig /release
Windows IP Configuration

Release of IP address failed for interface Ethernet 2.
Release of IP address failed for interface isatap.{03586045-C7E3-4B24-B382-FA354F1396F1}.

For Release and Renew, if no adapter name is specified, then the IP address
leases for all adapters bound to TCP/IP will be released or renewed.

D:\> ipconfig /renew
Windows IP Configuration

Renewal of IP address succeeded for interface Ethernet 2.
Renewal of IP address succeeded for interface isatap.{03586045-C7E3-4B24-B382-FA354F1396F1}.

For Setclassid and Setclassid6, if no ClassId is specified, then the ClassId is removed.

Z:\> ipconfig /setclassid6
Usage: ipconfig /setclassid6 [ClassId] [AdapterName]
  /showclassid6    Displays all the IPv6 DHCP class IDs allowed for adapter.
  /setclassid6     Modifies the IPv6 DHCP class id.

The default is to display only the IP address, subnet mask and
default gateway for each adapter bound to TCP/IP.

For Release and Renew, if no adapter name is specified, then the IP address
leases for all adapters bound to TCP/IP will be released or renewed.

For Setclassid and Setclassid6, if no ClassId is specified, then the ClassId is removed.

Z:\> Examples:
      > ipconfig           ... Show information
      > ipconfig /all       ... Show detailed information
      > ipconfig /renew      ... renew all adapters
      > ipconfig /renew EL*   ... renew any connection that has its
                               name starting with EL
      > ipconfig /release *Con* ... release all matching connections,
                                 eg. "Wired Ethernet Connection 1" or
                                 "Wired Ethernet Connection 2"
      > ipconfig /allcompartments ... Show information about all
                                    compartments
      > ipconfig /allcompartments /all ... Show detailed information about all
                                         compartments

D:\> time
D:\> time
The current time is: 14:45:28.37
Enter the new time:
```

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```
c:\ Command Prompt
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

D:\Users\knewman1>ping www.utah.edu

Pinging www.utah.edu [155.97.137.55] with 32 bytes of data:
Reply from 155.97.137.55: bytes=32 time=62ms TTL=232

Ping statistics for 155.97.137.55:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 62ms, Maximum = 62ms, Average = 62ms

D:\Users\knewman1>time
The current time is: 14:48:48.63
Enter the new time:

D:\Users\knewman1>
```

```
c:\ Command Prompt
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . . . . . : 

D:\Users\knewman1>ipconfig /all

Windows IP Configuration

Host Name . . . . . : CYBERUG-58
Primary Dns Suffix . . . . . : ad.maryville.edu
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : ad.maryville.edu

Ethernet adapter Ethernet:

Connection-specific DNS Suffix . . . . . : ad.maryville.edu
Description . . . . . : Intel(R) 82574L Gigabit Network Connection
Physical Address. . . . . : 00-50-56-8B-C4-13
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::7c48:bf2f:ec77:9feb%5(Preferred)
IPv4 Address. . . . . : 10.150.2.22(Preferred)
Subnet Mask . . . . . : 255.255.224.0
Lease Obtained. . . . . : Friday, September 1, 2017 8:56:40 AM
Lease Expires . . . . . : Tuesday, September 5, 2017 8:56:40 PM
Default Gateway . . . . . : 10.1.1.42
DHCP Server . . . . . : 10.1.1.42
DHCPv6 IAID . . . . . : 50352214
```

1.3 PING

LAB 1 DOS COMMANDS Kiauna Newman

```
Command Prompt
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

D:\Users\knewman1>ping www.maryville.edu

Pinging maryville.edu [50.56.52.74] with 32 bytes of data:
Reply from 50.56.52.74: bytes=32 time=7ms TTL=48

Ping statistics for 50.56.52.74:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 7ms, Maximum = 7ms, Average = 7ms

D:\Users\knewman1>time
The current time is: 16:23:06.40
Enter the new time:

D:\Users\knewman1>_

Command Prompt - time
Approximate round trip times in milli-seconds:
    Minimum = 7ms, Maximum = 7ms, Average = 7ms
Control-Break
Reply from 50.56.52.74: bytes=32 time=7ms TTL=48
Reply from 50.56.52.74: bytes=32 time=8ms TTL=48
Reply from 50.56.52.74:
Ping statistics for 50.56.52.74:
    Packets: Sent = 12, Received = 11, Lost = 1 (8% loss),
bytes=32 Approximate round trip times in milli-seconds:
    Minimum = 7ms, Maximum = 8ms, Average = 6ms
time=7ms Control-Break
TTL=48
Reply from 50.56.52.74: bytes=32 time=7ms TTL=48
Reply from 50.56.52.74: bytes=32 time=8ms TTL=48

Ping statistics for 50.56.52.74:
    Packets: Sent = 17, Received = 17, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 7ms, Maximum = 8ms, Average = 7ms
Control-C
^C
D:\Users\knewman1>time
The current time is: 16:25:59.28
Enter the new time:
```

LAB 1 DOS COMMANDS Kiauna Newman

```
Command Prompt
Reply from 50.56.52.74: bytes=32 time=7ms TTL=48
Reply from 50.56.52.74: bytes=32 time=7ms TTL=48
Reply from 50.56.52.74: bytes=32 time=7ms TTL=48
Reply from 50.56.52.74: bytes=32 time=8ms TTL=48
Reply from 50.56.52.74: bytes=32 time=7ms TTL=48
Reply from 50.56.52.74: bytes=32 time=7ms TTL=48

Ping statistics for 50.56.52.74:
    Packets: Sent = 6, Received = 6, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 7ms, Maximum = 8ms, Average = 7ms

D:\Users\knewman1>ping www.maryville.edu -l 50

Pinging maryville.edu [50.56.52.74] with 50 bytes of data:
Reply from 50.56.52.74: bytes=50 time=8ms TTL=48
Reply from 50.56.52.74: bytes=50 time=8ms TTL=48
Reply from 50.56.52.74: bytes=50 time=8ms TTL=48
Reply from 50.56.52.74: bytes=50 time=7ms TTL=48

Ping statistics for 50.56.52.74:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 7ms, Maximum = 8ms, Average = 7ms

D:\Users\knewman1>time
The current time is: 16:28:08.91
Enter the new time:

D:\Users\knewman1>_
```

1.4 Tracert

```
Command Prompt
Trace complete.

D:\Users\knewman1>tracert www.google.com

Tracing route to www.google.com [172.217.9.36]
over a maximum of 30 hops:

 1  <1 ms    <1 ms    <1 ms  10.150.0.2
 2  *          *          * Request timed out.
 3  <1 ms    <1 ms    <1 ms  10.50.0.254
 4  1 ms    <1 ms    <1 ms  10.52.0.254
 5  1 ms    1 ms    1 ms  97-86-165-133.static.stls.mo.charter.com [97.86.165.133]
 6  1 ms    1 ms    1 ms  dtr02tncomo-bue-100.tnco.mo.charter.com [96.34.50.164]
 7  2 ms    1 ms    1 ms  crr01olvemo-bue-5.olve.mo.charter.com [96.34.50.207]
 8  2 ms    3 ms    3 ms  bbr01olvemo-bue-70.olve.mo.charter.com [96.34.2.164]
 9  12 ms   11 ms   11 ms  bbr02chcgil-bue-2.chcg.il.charter.com [96.34.0.12]
10  7 ms    7 ms    7 ms  prr01chcgil-bue-4.chcg.il.charter.com [96.34.3.11]
11  7 ms    7 ms    7 ms  72.14.195.76
12  *          *          * Request timed out.
13  7 ms    6 ms    7 ms  72.14.239.122
14  7 ms    7 ms    7 ms  72.14.239.111
15  7 ms    7 ms    7 ms  ord38s08-in-f4.1e100.net [172.217.9.36]

Trace complete.

D:\Users\knewman1>time
The current time is: 16:32:05.04
Enter the new time:

D:\Users\knewman1>_
```

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```
Command Prompt
7    2 ms    1 ms    1 ms  96.34.50.207
8    2 ms    3 ms    3 ms  96.34.2.164
9   12 ms   11 ms   11 ms  96.34.0.12
10   7 ms    7 ms    7 ms  96.34.3.11
11   7 ms    7 ms    7 ms  72.14.195.76
12   *       7 ms    7 ms  72.14.195.76
13   *       7 ms    6 ms  72.14.239.122
14   7 ms    7 ms    7 ms  72.14.239.111
15   7 ms    7 ms    7 ms  172.217.9.36

Trace complete.

D:\Users\knewman1>tracert -h 5 www.google.com

Tracing route to www.google.com [172.217.9.36]
over a maximum of 5 hops:

1  <1 ms  <1 ms  <1 ms  10.150.0.2
2  *       *       * Request timed out.
3  <1 ms  <1 ms  <1 ms  10.50.0.254
4  <1 ms  <1 ms  <1 ms  10.52.0.254
5  1 ms    1 ms    1 ms  97-86-165-133.static.stls.mo.charter.com [97.86.165.133]

Trace complete.

D:\Users\knewman1>time
The current time is: 16:35:29.03
Enter the new time:

D:\Users\knewman1>
Command Prompt
1    0ms    0/  5 =  0%  0/  5 =  0%  | 0/  5 =  0%  10.150.0.1
2    ---    5/  5 =100% 5/  5 =100%  | 0/  5 =  0%  10.150.0.2
3    ---    5/  5 =100% 5/  5 =100%  | 0/  5 =  0%  10.50.0.254
4    ---    5/  5 =100% 5/  5 =100%  | 0/  5 =  0%  10.52.0.254
5    1ms    0/  5 =  0% 0/  5 =  0%  | 0/  5 =  0%  97-86-165-133.static.stls.mo.charter.com [97.86.165.133]
6    ---    5/  5 =100% 0/  5 =  0%  | 0/  5 =  0%  dtr02tncomo-bue-100.tnco.mo.charter.com [96.34.50.164]
7    ---    5/  5 =100% 0/  5 =  0%  | 0/  5 =  0%  crr01olvemo-bue-5.olve.mo.charter.com [96.34.50.207]
8    ---    5/  5 =100% 0/  5 =  0%  | 0/  5 =  0%  bbr01olvemo-bue-70.olve.mo.charter.com [96.34.2.164]
9    ---    5/  5 =100% 0/  5 =  0%  | 0/  5 =  0%  bbr02chcgil-bue-2.chcg.il.charter.com [96.34.0.12]
10   ---   5/  5 =100% 0/  5 =  0%  | 0/  5 =  0%  prr01chcgil-bue-4.chcg.il.charter.com [96.34.3.11]
11   ---   5/  5 =100% 0/  5 =  0%  | 0/  5 =  0%  bbr1.ord1.rackspace.net [206.223.119.14]

Trace complete.

D:\Users\knewman1>time
The current time is: 16:38:09.40
Enter the new time:

D:\Users\knewman1>
```

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```
Command Prompt
2 --- 5/ 5 =100% 5/ 5 =100% 10.150.0.2
3 --- 5/ 5 =100% 0/ 5 = 0% |
4 --- 5/ 5 =100% 5/ 5 =100% 10.50.0.254
5 --- 5/ 5 =100% 0/ 5 = 0% |
6 --- 5/ 5 =100% 4/ 5 = 20% dtr02tncomo-bue-100.tnco.mo.charter.com [97.86.165.133]
7 --- 5/ 5 =100% 4/ 5 = 80% crr01olvemo-bue-5.olve.mo.charter.com [96.34.50.207]
8 --- 5/ 5 =100% 4/ 5 = 80% bbr01olvemo-bue-70.olve.mo.charter.com [96.34.2.164]
9 --- 5/ 5 =100% 4/ 5 = 80% bbr02chcgil-bue-2.chcg.il.charter.com [96.34.0.12]
10 --- 5/ 5 =100% 4/ 5 = 80% prr01chcgil-bue-4.chcg.ll.charter.com [96.34.3.11]
11 7ms 1/ 5 = 20% 0/ 5 = 0% 72.14.195.76

trace complete.

D:\Users\knewman1>time
The current time is: 16:40:28.71
Enter the new time:

D:\Users\knewman1>
```

1.5 Netstat

```
Command Prompt
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

D:\Users\knewman1>netstat

Active Connections

  Proto  Local Address        Foreign Address      State
  TCP    10.150.2.22:1588   w2k12r2csv1fy16:4002  ESTABLISHED
  TCP    10.150.2.22:22443  w2k12r2csv1fy16:61956  ESTABLISHED
  TCP    10.150.2.22:27871  w2k12r2dc04fy16:microsoft-ds ESTABLISHED
  TCP    127.0.0.1:26316    CYBERUG-58:26329    ESTABLISHED
  TCP    127.0.0.1:26316    CYBERUG-58:27504    ESTABLISHED
  TCP    127.0.0.1:26329    CYBERUG-58:26316    ESTABLISHED
  TCP    127.0.0.1:27504    CYBERUG-58:26316    ESTABLISHED

D:\Users\knewman1>time
The current time is: 16:57:36.22
Enter the new time:

D:\Users\knewman1>
```

LAB 1 DOS COMMANDS Kiauna Newman

```
Command Prompt
: \Users\knewman1>netstat -b
he requested operation requires elevation.

: \Users\knewman1>
```

```
Select Command Prompt
D:\Users\knewman1>netstat -b
The requested operation requires elevation.

D:\Users\knewman1>netstat -a

Active Connections

 Proto Local Address          Foreign Address          State
 TCP   0.0.0.0:135            CYBERUG-58:0           LISTENING
 TCP   0.0.0.0:445            CYBERUG-58:0           LISTENING
 TCP   0.0.0.0:1536           CYBERUG-58:0           LISTENING
 TCP   0.0.0.0:1537           CYBERUG-58:0           LISTENING
 TCP   0.0.0.0:1538           CYBERUG-58:0           LISTENING
 TCP   0.0.0.0:1539           CYBERUG-58:0           LISTENING
 TCP   0.0.0.0:1551           CYBERUG-58:0           LISTENING
 TCP   0.0.0.0:1565           CYBERUG-58:0           LISTENING
 TCP   0.0.0.0:1576           CYBERUG-58:0           LISTENING
 TCP   0.0.0.0:1580           CYBERUG-58:0           LISTENING
 TCP   0.0.0.0:3389           CYBERUG-58:0           LISTENING
 TCP   0.0.0.0:4000           CYBERUG-58:0           LISTENING
 TCP   0.0.0.0:7680           CYBERUG-58:0           LISTENING
 TCP   0.0.0.0:9427           CYBERUG-58:0           LISTENING
 TCP   0.0.0.0:22443          CYBERUG-58:0           LISTENING
 TCP   0.0.0.0:32111          CYBERUG-58:0           LISTENING
 TCP   10.150.2.22:139        CYBERUG-58:0           LISTENING
 TCP   10.150.2.22:1588       w2k12r2csv1fy16:4002 ESTABLISHED
 TCP   10.150.2.22:22443      w2k12r2csv1fy16:61956 ESTABLISHED
 TCP   10.150.2.22:27871      w2k12r2dc04fy16:microsoft-ds ESTABLISHED
 TCP   10.150.2.22:27923      64.4.54.254:https    ESTABLISHED
```

LAB 1 DOS COMMANDS Kiauna Newman

```
Command Prompt
D:\Users\knewman1>netstat -n
Active Connections

 Proto Local Address          Foreign Address          State
 TCP   10.150.2.22:1588        10.1.2.220:4002        ESTABLISHED
 TCP   10.150.2.22:22443       10.1.2.220:61956       ESTABLISHED
 TCP   10.150.2.22:27871       10.1.1.4:445         ESTABLISHED
 TCP   127.0.0.1:26316         127.0.0.1:26329       ESTABLISHED
 TCP   127.0.0.1:26316         127.0.0.1:27504       ESTABLISHED
 TCP   127.0.0.1:26329         127.0.0.1:26316       ESTABLISHED
 TCP   127.0.0.1:27504         127.0.0.1:26316       ESTABLISHED

D:\Users\knewman1>
```

```
Command Prompt
D:\Users\knewman1>netstat -n
Active Connections

 Proto Local Address          Foreign Address          State
 TCP   10.150.2.22:1588        10.1.2.220:4002        ESTABLISHED
 TCP   10.150.2.22:22443       10.1.2.220:61956       ESTABLISHED
 TCP   10.150.2.22:27871       10.1.1.4:445         ESTABLISHED
 TCP   127.0.0.1:26316         127.0.0.1:26329       ESTABLISHED
 TCP   127.0.0.1:26316         127.0.0.1:27504       ESTABLISHED
 TCP   127.0.0.1:26329         127.0.0.1:26316       ESTABLISHED
 TCP   127.0.0.1:27504         127.0.0.1:26316       ESTABLISHED

D:\Users\knewman1>netstat -e
Interface Statistics

                                Received          Sent
Bytes                      3271666750      1394096035
Unicast packets             7312995        6025515
Non-unicast packets          0              0
Discards                     0              0
Errors                       0              0
Unknown protocols            0              0

D:\Users\knewman1>
```

LAB 1 DOS COMMANDS Kiauna Newman

```
Windows Command Prompt

D:\Users\knewman1>netstat -e 5
Interface Statistics

          Received          Sent
Bytes      3272825505  1395393665
Unicast packets    7320670   6032255
Non-unicast packets 0        0
Discards          0        0
Errors            0        0
Unknown protocols 0        0
Interface Statistics

          Received          Sent
Bytes      3272825505  1395393665
Unicast packets    7320670   6032255
Non-unicast packets 0        0
Discards          0        0
Errors            0        0
Unknown protocols 0        0
^C
D:\Users\knewman1>time
The current time is: 17:07:38.00
Enter the new time:

D:\Users\knewman1>_
```



```
Windows Command Prompt

Router Advertisements 0 0
ICMPv6 Statistics

          Received          Sent
Messages      93       10
Errors        0        0
Destination Unreachable 0        0
Packet Too Big 0        0
Time Exceeded 0        0
Parameter Problems 0        0
Echos         0        0
Echo Replies 0        0
MLD Queries  0        0
MLD Reports  0        0
MLD Dones    0        0
Router Solicitations 0        6
Router Advertisements 0        0
Neighbor Solicitations 0        2
Neighbor Advertisements 93       2
Redirects     0        0
Router Renumberings 0        0
TCP Statistics for IPv4

Active Opens           = 23930
Passive Opens          = 8
Failed Connection Attempts = 8485
Reset Connections      = 3015
Current Connections    = 7
```

1.6 NSlookup

LAB 1 DOS COMMANDS Kiauna Newman

```
Command Prompt

D:\Users\knewman1>nslookup www.maryville.edu
Server:  nt7d126.ad.maryville.edu
Address:  10.1.1.42

Name:  maryville.edu
Address:  50.56.52.74
Aliases:  www.maryville.edu

D:\Users\knewman1>nslookup www.cnn.com
Server:  nt7d126.ad.maryville.edu
Address:  10.1.1.42

Non-authoritative answer:
Name:  turner-tls.map.fastly.net
Addresses:  2a04:4e42:b::323
          151.101.45.67
Aliases:  www.cnn.com

D:\Users\knewman1>nslookup www.google.com
Server:  nt7d126.ad.maryville.edu
Address:  10.1.1.42

Non-authoritative answer:
Name:  www.google.com
Addresses:  2607:f8b0:4009:815::2004
          172.217.9.36
```

1.7 FTP

```
Command Prompt - ftp nssdcftp.gsfc.nasa.gov

ftp: 70708 bytes received in 0.39Seconds 182.71Kbytes/sec.
200 PORT command successful
150 Opening BINARY mode data connection for hst_antennae_9734a1.jpg (352898 bytes)
226 Transfer complete
ftp: 352898 bytes received in 0.34Seconds 1025.87Kbytes/sec.
200 PORT command successful
150 Opening BINARY mode data connection for hst_antennae_9734b.jpg (50990 bytes)
226 Transfer complete
ftp: 50990 bytes received in 0.08Seconds 621.83Kbytes/sec.
200 PORT command successful
150 Opening BINARY mode data connection for hst_pillars_m16.jpg (300282 bytes)
226 Transfer complete
ftp: 300282 bytes received in 0.32Seconds 950.26Kbytes/sec.
200 PORT command successful
150 Opening BINARY mode data connection for hst_helix_nebula.jpg (106112 bytes)
226 Transfer complete
ftp: 106112 bytes received in 0.15Seconds 716.97Kbytes/sec.
200 PORT command successful
150 Opening BINARY mode data connection for hst_deep_detail.jpg (781386 bytes)
226 Transfer complete
ftp: 781386 bytes received in 0.34Seconds 2271.47Kbytes/sec.
200 PORT command successful
150 Opening BINARY mode data connection for hst_lagoon_detail.jpg (26457 bytes)
226 Transfer complete
ftp: 26457 bytes received in 0.15Seconds 177.56Kbytes/sec.
200 PORT command successful
150 Opening BINARY mode data connection for hst_stingray_nebula.jpg (18666 bytes)
226 Transfer complete
ftp: 18666 bytes received in 0.02Seconds 1166.63Kbytes/sec.
ftp>
```

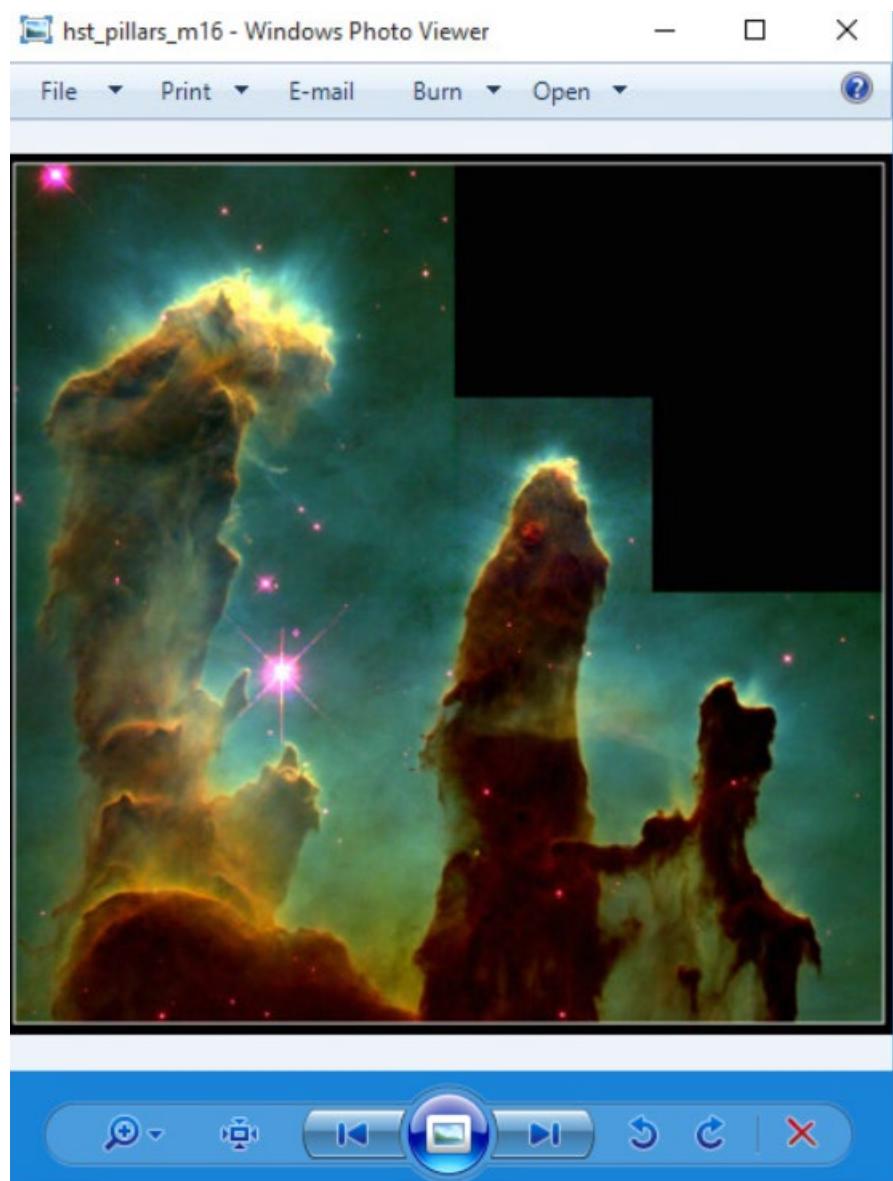
LAB 1 DOS COMMANDS Kiauna Newman

```
Command Prompt
09/03/2017  07:53 PM      314,982 hst_crab_nebula.jpg
09/03/2017  07:53 PM      781,386 hst_deep_detail.jpg
09/03/2017  07:53 PM      595,873 hst_deep_field.jpg
09/03/2017  07:53 PM      103,728 hst_faint_blue.jpg
09/03/2017  07:53 PM      327,614 hst_globclust_m15.jpg
09/03/2017  07:53 PM      70,512 hst_helix_detail.jpg
09/03/2017  07:53 PM      106,112 hst_helix_nebula.jpg
09/03/2017  07:53 PM      396,121 hst_hourglass_nebula.jpg
09/03/2017  07:53 PM      26,457 hst_lagoon_detail.jpg
09/03/2017  07:53 PM      25,748 hst_lagoon_nebula.jpg
09/03/2017  07:53 PM      89,785 hst_med_deep.jpg
09/03/2017  07:53 PM      106,245 hst_neutron_star_9732.jpg
09/03/2017  07:53 PM      21,759 hst_omicron_ceti.jpg
09/03/2017  07:53 PM      251,547 hst_orion_nebula.jpg
09/03/2017  07:53 PM      300,282 hst_pillars_m16.jpg
09/03/2017  07:53 PM      398,305 hst_pillars_m16_close.jpg
09/03/2017  07:53 PM      35,644 hst_starform_ngc2366.jpg
09/03/2017  07:53 PM      48,125 hst_starform_ngc604.jpg
09/03/2017  07:53 PM      18,666 hst_stingray_nebula.jpg
09/03/2017  07:53 PM      26,745 hst_tm1.jpg
09/03/2017  07:53 PM      113,909 hst_white_dwarf.jpg
09/03/2017  07:53 PM      70,708 rosat_h262s21a.jpg
28 File(s)   5,033,546 bytes
2 Dir(s)    1,792,888,832 bytes free

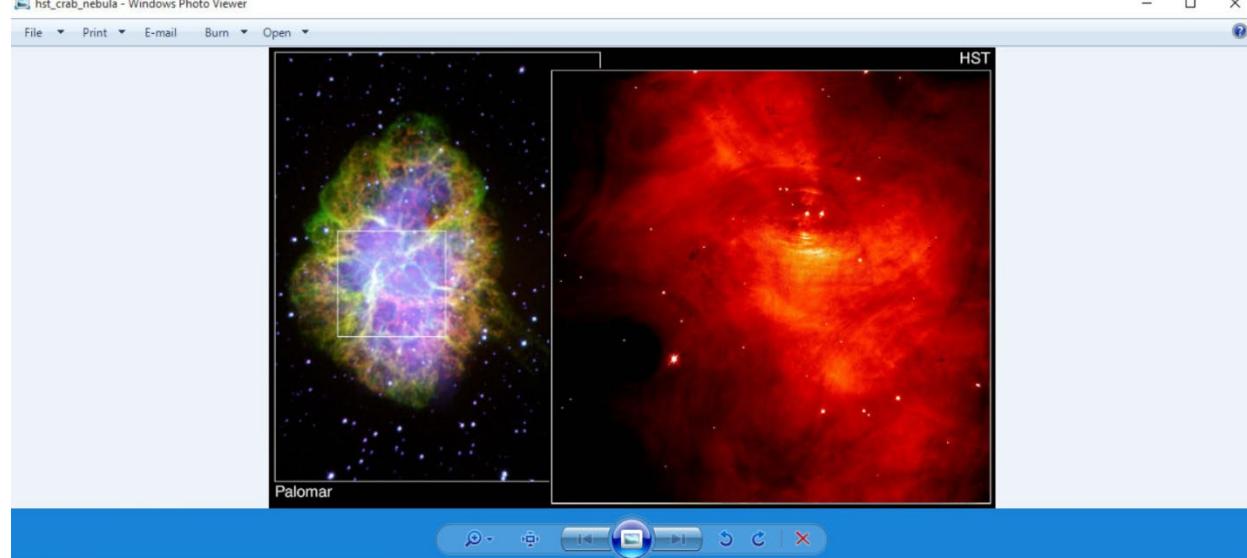
D:\images>time
The current time is: 19:56:05.07
Enter the new time:

D:\images>
```

LAB 1 DOS COMMANDS Kiauna Newman



LAB 1 DOS COMMANDS Kiauna Newman

```
Command Prompt - ftp nssdcftp.gsfc.nasa.gov
hst_crab_nebula.jpg
hst_lagoon_nebula.jpg
hst_med_deep.jpg
hst_deep_field.jpg
hst_faint_blue.jpg
hst_hourglass_nebula.jpg
hst_starform_ngc2366.jpg
hst_helix_detail.jpg
hst_pillars_m16_close.jpg
hst_betelgeuse.jpg
hst_white_dwarf.jpg
hst_globclust_m15.jpg
226 Transfer complete
ftp: 621 bytes received in 0.10Seconds 6.40Kbytes/sec.
ftp> binary
200 Type set to I
ftp> lcd D:\images
lcd local directory.
ftp> lcd D:\images
Local directory now D:\images.
ftp> get hst_crab_nebula.jpg
200 PORT command successful
150 Opening BINARY mode data connection for hst_crab_nebula.jpg (314982 bytes)
226 Transfer complete
ftp: 314982 bytes received in 0.36Seconds 865.34Kbytes/sec.
ftp> status
Connected to spdf.sci.gsfc.nasa.gov.
Type: binary; Verbose: On ; Bell: Off ; Prompting: On ; Globbing: On
Debugging: Off ; Hash mark printing: Off .
ftp>

```

LAB 1 DOS COMMANDS Kiauna Newman

```
 Command Prompt - ftp nssdcftp.gsfc.nasa.gov
09/03/2017 07:34 PM <DIR> ..
09/03/2017 07:34 PM 314,982 hst_crab_nebula.jpg
  1 File(s)   314,982 bytes
  2 Dir(s)  1,798,672,384 bytes free

D:\images>hst_crab_nebula.jpg
The system cannot execute the specified program.

D:\images>hst_crab_nebula.jpg
The system cannot execute the specified program.

D:\images>hst_crab_nebula.jpg

D:\images>time
The current time is: 19:44:50.66
Enter the new time:

D:\images>ftp nssdcftp.gsfc.nasa.gov
Connected to spdf.sci.gsfc.nasa.gov.
220-WARNING! This is a U.S. Government Computer
  This U.S. Government computer is for authorized users only.
  By accessing this system, you are consenting to complete monitoring with no expectation of privacy.
  Unauthorized access or use may subject you to disciplinary action and criminal prosecution.
220 Welcome to our FTP Server
500 OPTS UTF8 not understood
User (spdf.sci.gsfc.nasa.gov:(none)): anonymous
331 Anonymous login ok, send your complete email address as your password
Password:
230 Anonymous access granted, restrictions apply
ftp>
```

1.8 Powershell

```
Select Windows PowerShell
PS D:\images> get-childitem
Directory: D:\images

Mode          LastWriteTime      Length Name
----          -----          ---- 
-a--- 9/3/2017 7:53 PM        251547 hst_orion_nebula.jpg
-a--- 9/3/2017 7:53 PM        300282 hst_pillars_m16.jpg
-a--- 9/3/2017 7:53 PM        398305 hst_pillars_m16_close.jpg
-a--- 9/3/2017 7:53 PM        35644 hst_starform_ngc2366.jpg
-a--- 9/3/2017 7:53 PM        48125 hst_starform_ngc604.jpg
-a--- 9/3/2017 7:53 PM        18666 hst_stingray_nebula.jpg
-a--- 9/3/2017 7:53 PM        26745 hst_tmr1.jpg
-a--- 9/3/2017 7:53 PM        113909 hst_white_dwarf.jpg
-a--- 9/3/2017 7:53 PM        70708 rosat_h262s21a.jpg

PS D:\images> get-childitem
Directory: D:\images

Mode          LastWriteTime      Length Name
----          -----          ---- 
-a--- 9/3/2017 7:53 PM        40919 hst_abell2218.jpg
-a--- 9/3/2017 7:53 PM        37323 hst_antennae_9734a.jpg
-a--- 9/3/2017 7:53 PM        352898 hst_antennae_9734al.jpg
-a--- 9/3/2017 7:53 PM        50990 hst_antennae_9734b.jpg
-a--- 9/3/2017 7:53 PM        224740 hst_betelgeuse.jpg
-a--- 9/3/2017 7:53 PM        96423 hst_blkhole.jpg
-a--- 9/3/2017 7:53 PM        314982 hst_crab_nebula.jpg
-a--- 9/3/2017 7:53 PM        781386 hst_deep_detail.jpg
-a--- 9/3/2017 7:53 PM        595873 hst_deep_field.jpg
-a--- 9/3/2017 7:53 PM        103728 hst_faint_blue.jpg
-a--- 9/3/2017 7:53 PM        327614 hst_globc7ust_m15.jpg
-a--- 9/3/2017 7:53 PM        70512 hst_helix_detail.jpg
-a--- 9/3/2017 7:53 PM        106112 hst_helix_nebula.jpg
-a--- 9/3/2017 7:53 PM        396121 hst_hourglass_nebula.jpg
-a--- 9/3/2017 7:53 PM        26457 hst_lagoon_detail.jpg
-a--- 9/3/2017 7:53 PM        25748 hst_lagoon_nebula.jpg
-a--- 9/3/2017 7:53 PM        89785 hst_med_deep.jpg
-a--- 9/3/2017 7:53 PM        106245 hst_neutron_star_9732.jpg
-a--- 9/3/2017 7:53 PM        21759 hst_omicron_ceti.jpg
-a--- 9/3/2017 7:53 PM        251547 hst_orion_nebula.jpg
-a--- 9/3/2017 7:53 PM        300282 hst_pillars_m16.jpg
-a--- 9/3/2017 7:53 PM        398305 hst_pillars_m16_close.jpg
-a--- 9/3/2017 7:53 PM        35644 hst_starform_ngc2366.jpg
-a--- 9/3/2017 7:53 PM        48125 hst_starform_ngc604.jpg
-a--- 9/3/2017 7:53 PM        18666 hst_stingray_nebula.jpg
-a--- 9/3/2017 7:53 PM        26745 hst_tmr1.jpg
-a--- 9/3/2017 7:53 PM        113909 hst_white_dwarf.jpg
-a--- 9/3/2017 7:53 PM        70708 rosat_h262s21a.jpg

PS D:\images>
```

LAB 1 DOS COMMANDS Kiauna Newman

```
Windows PowerShell

PS D:\images> Get-Alias -definition Get-ChildItem
 CommandType      Name          Version   Source
-----      ----          -----   -----
 Alias        dir -> Get-ChildItem
 Alias        gci -> Get-ChildItem
 Alias        ls -> Get-ChildItem

PS D:\images> Set-Alias KiaunaNewmanList Get-ChildItem
PS D:\images> KiaunaNewmanList

Directory: D:\images

Mode                LastWriteTime       Length Name
----                -----          ----  -
-a---       9/3/2017 7:53 PM        40919 hst_abell2218.jpg
-a---       9/3/2017 7:53 PM        37323 hst_antennae_9734a.jpg
-a---       9/3/2017 7:53 PM        352898 hst_antennae_9734a1.jpg
-a---       9/3/2017 7:53 PM        50990 hst_antennae_9734b.jpg
-a---       9/3/2017 7:53 PM        224740 hst_betelgeuse.jpg
-a---       9/3/2017 7:53 PM        96423 hst_blkhole.jpg
-a---       9/3/2017 7:53 PM        314982 hst_crab_nebula.jpg
-a---       9/3/2017 7:53 PM        781386 hst_deep_detail.jpg
-a---       9/3/2017 7:53 PM        595873 hst_deep_field.jpg
-a---       9/3/2017 7:53 PM        103728 hst_faint_blue.jpg
-a---       9/3/2017 7:53 PM        327614 hst_globclust_m15.jpg
-a---       9/3/2017 7:53 PM        70512 hst_helix_detail.jpg
-a---       9/3/2017 7:53 PM        106112 hst_helix_nebula.jpg
-a---       9/3/2017 7:53 PM        396121 hst_hourglass_nebula.jpg
-a---       9/3/2017 7:53 PM        26457 hst_lagoon_detail.jpg
-a---       9/3/2017 7:53 PM        25748 hst_lagoon_nebula.jpg
-a---       9/3/2017 7:53 PM        89785 hst_med_deep.jpg
-a---       9/3/2017 7:53 PM        106245 hst_neutron_star_9732.jpg
-a---       9/3/2017 7:53 PM        21759 hst_omicron_ceti.jpg
-a---       9/3/2017 7:53 PM        251547 hst_orion_nebula.jpg
-a---       9/3/2017 7:53 PM        300282 hst_pillars_m16.jpg
-a---       9/3/2017 7:53 PM        398305 hst_pillars_m16_close.jpg
-a---       9/3/2017 7:53 PM        35644 hst_starform_ngc2366.jpg
-a---       9/3/2017 7:53 PM        48125 hst_starform_ngc604.jpg
-a---       9/3/2017 7:53 PM        18666 hst_stingray_nebula.jpg
-a---       9/3/2017 7:53 PM        26745 hst_tm1.jpg
-a---       9/3/2017 7:53 PM        113909 hst_white_dwarf.jpg
-a---       9/3/2017 7:53 PM        70708 rosat_h262s21a.jpg

PS D:\images>
```

LAB 1 DOS COMMANDS Kiauna Newman

```
Windows PowerShell
Cmdlet Set-TpmOwnerAuth           2.0.0.0  TrustedPlatformModule
Cmdlet Set-TraceSource             3.1.0.0  Microsoft.PowerShell.Utility
Cmdlet Set-Variable                3.1.0.0  Microsoft.PowerShell.Utility
Cmdlet Set-WinAcceptLanguageFromLanguageListOptOut 2.0.0.0  International
Cmdlet Set-WinCultureFromLanguageListOptOut        2.0.0.0  International
Cmdlet Set-WinDefaultInputMethodOverride          2.0.0.0  International
Cmdlet Set-WindowsEdition            3.0       Dism
Cmdlet Set-WindowsProductKey        3.0       Dism
Cmdlet Set-WindowsSearchSetting     1.0.0.0  WindowsSearch
Cmdlet Set-WinHomeLocation          2.0.0.0  International
Cmdlet Set-WinLanguageBarOption      2.0.0.0  International
Cmdlet Set-WinSystemLocale          2.0.0.0  International
Cmdlet Set-WinUILanguageOverride    2.0.0.0  International
Cmdlet Set-WinUserLanguageList      2.0.0.0  International
Cmdlet Set-WmInstance               3.1.0.0  Microsoft.PowerShell.Management
Cmdlet Set-WSManInstance            3.0.0.0  Microsoft.WSMan.Management
Cmdlet Set-WSManQuickConfig         3.0.0.0  Microsoft.WSMan.Management

PS D:\images> Get-Command -noun Process
 CommandType      Name          Version   Source
 ----          ----          -----   -----
 Cmdlet          Debug-Process  3.1.0.0  Microsoft.PowerShell.Management
 Cmdlet          Get-Process    3.1.0.0  Microsoft.PowerShell.Management
 Cmdlet          Start-Process  3.1.0.0  Microsoft.PowerShell.Management
 Cmdlet          Stop-Process   3.1.0.0  Microsoft.PowerShell.Management
 Cmdlet          Wait-Process   3.1.0.0  Microsoft.PowerShell.Management

PS D:\images> Get-Command -noun Service
 CommandType      Name          Version   Source
 ----          ----          -----   -----
 Cmdlet          Get-Service    3.1.0.0  Microsoft.PowerShell.Management
 Cmdlet          New-Service    3.1.0.0  Microsoft.PowerShell.Management
 Cmdlet          Restart-Service 3.1.0.0  Microsoft.PowerShell.Management
 Cmdlet          Resume-Service  3.1.0.0  Microsoft.PowerShell.Management
 Cmdlet          Set-Service    3.1.0.0  Microsoft.PowerShell.Management
 Cmdlet          Start-Service  3.1.0.0  Microsoft.PowerShell.Management
 Cmdlet          Stop-Service   3.1.0.0  Microsoft.PowerShell.Management
 Cmdlet          Suspend-Service 3.1.0.0  Microsoft.PowerShell.Management

PS D:\images> Get-Date
Sunday, September 3, 2017 8:27:25 PM

PS D:\images>
```

LAB 1 DOS COMMANDS Kiauna Newman

```
Windows PowerShell
PS D:\images> Get-Process | Get-Member -membertype AliasProperty

    TypeName: System.Diagnostics.Process

Name      MemberType      Definition
----      -----      -----
Handles  AliasProperty  Handles = HandleCount
Name     AliasProperty  Name = ProcessName
NPM     AliasProperty  NPM = NonpagedSystemMemorySize64
PM      AliasProperty  PM = PagedMemorySize64
VM      AliasProperty  VM = VirtualMemorySize64
WS      AliasProperty  WS = WorkingSet64

PS D:\images>
```

LAB 1 DOS COMMANDS Kiauna Newman

Windows PowerShell

```

120   21    1196    1420 ...73      1384 svchost
247   21    9124    14468 ...22      1236 svchost
235   76    5872    8136    95       1196 VMBlasts
3545   0     216     12272    35       4 System
207   17    3760    9100 ...88      2552 svchost
0     0     0       4     0       0 Idle
440   136   6364   11000   123      1904 wsnm
264   24    9700   16092 ...17      3564 WmiPrvSE
1380   56    6764   13400 ...46      596 lsass
221   19    1964    3508 ...97       684 svchost
436   50    33404   51912 ...79      3344 dwm
590   35    76308   53960 1485      3100 wsnm_jms
54     6    776     1104 ...77      3116 conhost
337   15    1248    1684 ...04      408 csrss
202   14    3356    4208 ...02      3384 dllhost
400   20    1560    5748 ...06      5644 csrss
257   14    3384   11332 ...94      7148 MpCmdRun
85     19    876     1400 ...93      512 wininit
50     5    1500    1384    76       2544 perfhost
140   11    1432    2776    35       2020 vmware-svi-ga
802   49    22580   20532 ...80      4576 SearchIndexer
194   9     1648    9584 ...07      4144 winlogon
276   19    12088   3104 ...11      2640 NisSrv
173   14    2484    2512 ...95      3488 msdtc
607   72    155156   240992 ...76      3140 MsMpEng
87     8    10136   9020 ...38      0.02
52     5    660     3440    39       4488 conhost
140   11    5744   10196 ...91      0.05
174   13    2200   12528 ...24      5368 vmwAgent
142   11    1996    7436    85       6524 audiogd
122   11    2008   11232 ...54      0.09
194   14    2096   11992   91       6872 notepad
208   16    4456   19932 ...87      0.17
364   18    3632    14856   101      1200 ApplicationFrameHost
538   35    27752   32764   252      5244 jucheck
330   26    6296   17056   148      4340 OneDrive
234   23    9104   18668   123      1296 TPAutoConnect
332   30    5820   17620 ...52      0.59
370   21    5532   26800 ...92      5580 wsrm
378   18    4672   21528 ...72      1.08
330   25    4796   13128   113      1.39
642   32    18016   58012   246      2604 VMwareViewClipboard
1242  68    56092   109308  33138      5532 ShellExperienceHost
177   16    6076   16168 ...48      2.45
217   20    4220   14640   113      2732 SearchUI
786   39    84020   104212 ...09      3.11
217   20    4220   14640   113      5460 vmtoolsd
1517  72    26160   87888 ...95      6284 conhost
1517  72    26160   87888 ...95      3756 powershell
1517  72    26160   87888 ...95      5908 explorer

```

PS D:\images>

Windows PowerShell

```

377   36    6076   16168 ...48      3.11
217   20    4220   14460   113      6284 conhost
786   39    84020   104212 ...09      11.61
1517  72    26160   87888 ...95      3756 powershell
1517  72    26160   87888 ...95      5908 explorer

```

PS D:\images> Get-Process | ConvertTo-HTML | Out-File "LNameProcess.html"

PS D:\images> Get-Process | ConvertTo-Csv | Out-File "LNameProcess.csv"

PS D:\images> dir

Directory: D:\images

Mode	LastWriteTime	Length	Name
-a---	9/3/2017 7:53 PM	40919	hst_abell2218.jpg
-a---	9/3/2017 7:53 PM	37323	hst_antennae_9734a.jpg
-a---	9/3/2017 7:53 PM	352898	hst_antennae_9734a1.jpg
-a---	9/3/2017 7:53 PM	352890	hst_antennae_9734b.jpg
-a---	9/3/2017 7:53 PM	234290	hst_antennae_9734b1.jpg
-a---	9/3/2017 7:53 PM	96423	hst_blackhole.jpg
-a---	9/3/2017 7:53 PM	314982	hst_crab_nebula.jpg
-a---	9/3/2017 7:53 PM	313895	hst_deep_debris.jpg
-a---	9/3/2017 7:53 PM	589739	hst_dust_debriseld.jpg
-a---	9/3/2017 7:53 PM	103728	hst_faint_blue.jpg
-a---	9/3/2017 7:53 PM	327614	hst_globclust_m15.jpg
-a---	9/3/2017 7:53 PM	709124	hst_helix_detail.jpg
-a---	9/3/2017 7:53 PM	106112	hst_hexagonalnebula.jpg
-a---	9/3/2017 7:53 PM	396121	hst_hourglass_nebula.jpg
-a---	9/3/2017 7:53 PM	26457	hst_lagoon_detail.jpg
-a---	9/3/2017 7:53 PM	200000	hst_lagoon_nebula.jpg
-a---	9/3/2017 7:53 PM	89785	hst_med_debris.jpg
-a---	9/3/2017 7:53 PM	106245	hst_neutron_star_9732.jpg
-a---	9/3/2017 7:53 PM	21759	hst_omcrown_ceti.jpg
-a---	9/3/2017 7:53 PM	230000	hst_ortizberumen.jpg
-a---	9/3/2017 7:53 PM	300282	hst_pillars_m16.jpg
-a---	9/3/2017 7:53 PM	398305	hst_pillars_m16_close.jpg
-a---	9/3/2017 7:53 PM	35640	hst_starform_ngc2366.jpg
-a---	9/3/2017 7:53 PM	303000	hst_starform_ngc604.jpg
-a---	9/3/2017 7:53 PM	18666	hst_starform_ngc6041.jpg
-a---	9/3/2017 7:53 PM	26745	hst_tm1.jpg
-a---	9/3/2017 7:53 PM	113909	hst_white_dwarf.jpg
-a---	9/3/2017 9:05 PM	141350	LNameProcess.html
-a---	9/3/2017 9:05 PM	70708	rosat_h262s21a.jpg

PS D:\images> Invoke-Item LNameProcess.html

PS D:\images>

LAB 1 DOS COMMANDS Kiauna Newman

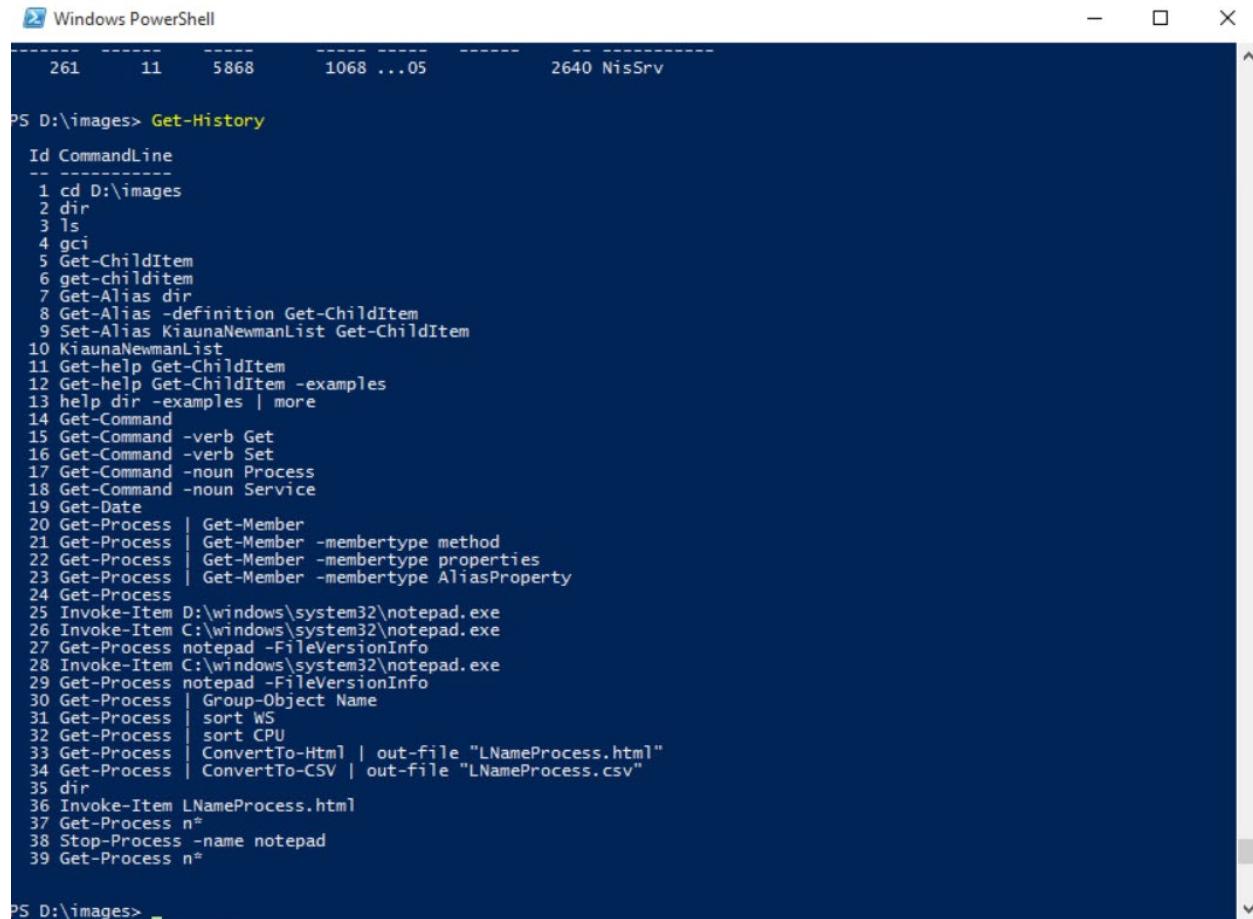
```
Windows PowerShell
-a--- 9/3/2017 7:53 PM      40919 hst_abel12218.jpg
-a--- 9/3/2017 7:53 PM      37323 hst_antennae_9734a.jpg
-a--- 9/3/2017 7:53 PM      352898 hst_antennae_9734a1.jpg
-a--- 9/3/2017 7:53 PM      50990 hst_antennae_9734b.jpg
-a--- 9/3/2017 7:53 PM      224740 hst_betelgeuse.jpg
-a--- 9/3/2017 7:53 PM      96423 hst_blkhole.jpg
-a--- 9/3/2017 7:53 PM      314982 hst_crab_nebula.jpg
-a--- 9/3/2017 7:53 PM      781386 hst_deep_detail.jpg
-a--- 9/3/2017 7:53 PM      595873 hst_deep_field.jpg
-a--- 9/3/2017 7:53 PM      103728 hst_faint_blue.jpg
-a--- 9/3/2017 7:53 PM      327614 hst_globclust_m15.jpg
-a--- 9/3/2017 7:53 PM      70512 hst_helix_detail.jpg
-a--- 9/3/2017 7:53 PM      106112 hst_helix_nebula.jpg
-a--- 9/3/2017 7:53 PM      396121 hst_hourglass_nebula.jpg
-a--- 9/3/2017 7:53 PM      26457 hst_lagoon_detail.jpg
-a--- 9/3/2017 7:53 PM      25748 hst_lagoon_nebula.jpg
-a--- 9/3/2017 7:53 PM      89785 hst_med_deep.jpg
-a--- 9/3/2017 7:53 PM      106245 hst_neutron_star_9732.jpg
-a--- 9/3/2017 7:53 PM      21759 hst_omicron_ceti.jpg
-a--- 9/3/2017 7:53 PM      251547 hst_orion_nebula.jpg
-a--- 9/3/2017 7:53 PM      300282 hst_pillars_m16.jpg
-a--- 9/3/2017 7:53 PM      398309 hst_pillars_m16_close.jpg
-a--- 9/3/2017 7:53 PM      35644 hst_starform_ngc2366.jpg
-a--- 9/3/2017 7:53 PM      48125 hst_starform_ngc604.jpg
-a--- 9/3/2017 7:53 PM      18666 hst_stingray_nebula.jpg
-a--- 9/3/2017 7:53 PM      26745 hst_tmrl.jpg
-a--- 9/3/2017 7:53 PM      113909 hst_white_dwarf.jpg
-a--- 9/3/2017 9:07 PM      78612 LNameProcess.csv
-a--- 9/3/2017 9:05 PM      141350 LNameProcess.html
-a--- 9/3/2017 7:53 PM      70708 rosat_h262s2ia.jpg

PS D:\images> Invoke-Item LNameProcess.html
PS D:\images> Get-Process n*
Handles  NPM(K)    PM(K)      WS(K)  VM(M)   CPU(s)    Id ProcessName
-----  -----    -----      -----  -----   -----    --
  261      11     5868       1068 ...05      2640  NisSrv
  122      11     2008      11240 ...54      0.17  notepad

PS D:\images> Stop-Process -name notepad
PS D:\images> Get-Process n*
Handles  NPM(K)    PM(K)      WS(K)  VM(M)   CPU(s)    Id ProcessName
-----  -----    -----      -----  -----   -----    --
  261      11     5868       1068 ...05      2640  NisSrv

PS D:\images> _
```

LAB 1 DOS COMMANDS Kiauna Newman



A screenshot of a Windows PowerShell window titled "Windows PowerShell". The window shows a command history starting with "Get-History". The commands listed are numbered from 1 to 39. The commands include various PowerShell cmdlets like Get-ChildItem, Get-Command, Get-Date, Get-Process, Invoke-Item, and Stop-Process, along with piping operations and file output. The window has a dark blue background and a light blue header bar.

```
PS D:\images> Get-History
Id CommandLine
-- -----
1 cd D:\images
2 dir
3 ls
4 gci
5 Get-ChildItem
6 get-childitem
7 Get-Alias dir
8 Get-Alias -definition Get-ChildItem
9 Set-Alias KiaunaNewmanList Get-ChildItem
10 KiaunaNewmanList
11 Get-help Get-ChildItem
12 Get-help Get-ChildItem -examples
13 help dir -examples | more
14 Get-Command
15 Get-Command -verb Get
16 Get-Command -verb Set
17 Get-Command -noun Process
18 Get-Command -noun Service
19 Get-Date
20 Get-Process | Get-Member
21 Get-Process | Get-Member -membertype method
22 Get-Process | Get-Member -membertype properties
23 Get-Process | Get-Member -membertype AliasProperty
24 Get-Process
25 Invoke-Item D:\windows\system32\notepad.exe
26 Invoke-Item C:\windows\system32\notepad.exe
27 Get-Process notepad -FileVersionInfo
28 Invoke-Item C:\windows\system32\notepad.exe
29 Get-Process notepad -FileVersionInfo
30 Get-Process | Group-Object Name
31 Get-Process | sort WS
32 Get-Process | sort CPU
33 Get-Process | ConvertTo-HTML | out-file "LNameProcess.html"
34 Get-Process | ConvertTo-CSV | out-file "LNameProcess.csv"
35 dir
36 Invoke-Item LNameProcess.html
37 Get-Process n*
38 Stop-Process -name notepad
39 Get-Process n*
```

PS D:\images> _

1.9 Hashing

LAB 1 DOS COMMANDS Kiauna Newman

```
cmd Command Prompt
3 File(s)      208,011 bytes
2 Dir(s)    1,532,280,832 bytes free

D:\Security>fciv.exe ReadMe.txt
//
// File Checksum Integrity Verifier version 2.05.
//
79ac8d043dc8739f661c45cc33fc07ac readme.txt

D:\Security>fciv.exe ReadMe.txt -md5
//
// File Checksum Integrity Verifier version 2.05.
//
79ac8d043dc8739f661c45cc33fc07ac readme.txt

D:\Security>fciv.exe ReadMe.txt -shal
//
// File Checksum Integrity Verifier version 2.05.
//
79ac8d043dc8739f661c45cc33fc07ac readme.txt

D:\Security>fciv.exe ReadMe.txt -both
//
// File Checksum Integrity Verifier version 2.05.
//
-----  
MD5           SHA-1
-----  
79ac8d043dc8739f661c45cc33fc07ac 2fe398f1ebced166087362626241b95efaab407 readme.txt

D:\Security>
```

LAB 1 DOS COMMANDS Kiauna Newman

The image shows two separate Command Prompt windows side-by-side. Both windows have a title bar labeled 'Command Prompt' and a standard window control menu (minimize, maximize, close).

Top Window (D:\Security):

```
// File Checksum Integrity Verifier version 2.05.  
//  
79ac8d043dc8739f661c45cc33fc07ac readme.txt  
  
D:\Security>fciv.exe ReadMe.txt -shal  
//  
// File Checksum Integrity Verifier version 2.05.  
//  
79ac8d043dc8739f661c45cc33fc07ac readme.txt  
  
D:\Security>fciv.exe ReadMe.txt -both  
//  
// File Checksum Integrity Verifier version 2.05.  
//  
MD5 SHA-1  
-----  
79ac8d043dc8739f661c45cc33fc07ac 2fe398f1ebced166087362626241b95feaab407 readme.txt  
  
D:\Security>notepad ReadMe.txt  
  
D:\Security>fciv.exe ReadMe1.txt -both  
//  
// File Checksum Integrity Verifier version 2.05.  
//  
MD5 SHA-1  
-----  
3fd24263352ca6515f979acd882e04c8 2cfb737a7527b492d9c15767d7bf05c104e496e9 readme1.txt  
  
D:\Security>
```

Bottom Window (D:\Security):

```
79ac8d043dc8739f661c45cc33fc07ac readme.txt  
  
D:\Security>fciv.exe ReadMe.txt -both  
//  
// File Checksum Integrity Verifier version 2.05.  
//  
MD5 SHA-1  
-----  
79ac8d043dc8739f661c45cc33fc07ac 2fe398f1ebced166087362626241b95feaab407 readme.txt  
  
D:\Security>notepad ReadMe.txt  
  
D:\Security>fciv.exe ReadMe1.txt -both  
//  
// File Checksum Integrity Verifier version 2.05.  
//  
MD5 SHA-1  
-----  
3fd24263352ca6515f979acd882e04c8 2cfb737a7527b492d9c15767d7bf05c104e496e9 readme1.txt  
  
D:\Security>fciv.exe D:\security  
//  
// File Checksum Integrity Verifier version 2.05.  
//  
e2c6d562bd35352b73c00a744e9c07c6 d:\security\fciv.exe  
79ac8d043dc8739f661c45cc33fc07ac d:\security\ReadMe.txt  
3fd24263352ca6515f979acd882e04c8 d:\security\ReadMe1.txt  
58dc4df814685a165f58037499c89e76 d:\security\Windows-KB841290-x86-ENU.exe  
  
D:\Security>
```

1.10 SDelete

LAB 1 DOS COMMANDS Kiauna Newman

```
Command Prompt
05/28/2016 12:09 PM      165,544 sdelete64.exe
              4 File(s)    324,246 bytes
              2 Dir(s)   1,527,590,912 bytes free

D:\Security\SDelete>sdelete.exe -p 7 KiaunaNewmanSecrets.txt

SDelete v2.0 - Secure file delete
Copyright (C) 1999-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

SDelete is set for 7 passes.
D:\Security\SDelete\KiaunaNewmanSecrets.txt...deleted.

Files deleted: 1

D:\Security\SDelete>dir
Volume in drive D is PersistentDataDisk
Volume Serial Number is 382F-E342

Directory of D:\Security\SDelete

09/03/2017 10:06 PM    <DIR>      .
09/03/2017 10:06 PM    <DIR>      ..
11/08/2015 01:17 PM          7,490 Eula.txt
05/28/2016 12:12 PM      151,200 sdelete.exe
05/28/2016 12:09 PM      165,544 sdelete64.exe
              3 File(s)    324,234 bytes
              2 Dir(s)   1,527,590,912 bytes free

D:\Security\SDelete>
```

```
Command Prompt
Volume Serial Number is 382F-E342

Directory of D:\Security\SDelete

09/03/2017 09:59 PM    <DIR>      .
09/03/2017 09:59 PM    <DIR>      ..
11/08/2015 01:17 PM          7,490 Eula.txt
05/28/2016 12:12 PM      151,200 sdelete.exe
05/28/2016 12:09 PM      165,544 sdelete64.exe
              3 File(s)    324,234 bytes
              2 Dir(s)   1,527,590,912 bytes free

D:\Security\SDelete>notepad KiaunaNewmanSecrets.txt

D:\Security\SDelete>dir
Volume in drive D is PersistentDataDisk
Volume Serial Number is 382F-E342

Directory of D:\Security\SDelete

09/03/2017 10:03 PM    <DIR>      .
09/03/2017 10:03 PM    <DIR>      ..
11/08/2015 01:17 PM          7,490 Eula.txt
09/03/2017 10:03 PM          12 KiaunaNewmanSecrets.txt
05/28/2016 12:12 PM      151,200 sdelete.exe
05/28/2016 12:09 PM      165,544 sdelete64.exe
              4 File(s)    324,246 bytes
              2 Dir(s)   1,527,590,912 bytes free

D:\Security\SDelete>
```