

SHELL USER MANUAL

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I. Overview

A. What is Shell?

[Shell] “Command Prompt is a *command line interpreter* application available in most Windows *operating systems*. Command Prompt is used to execute entered *commands*. Most of those commands are used to automate tasks via scripts and *batch files*, perform advanced administrative functions, and troubleshoot and solve certain kinds of Windows issues. Command Prompt is officially called *Windows Command Processor* but is also sometimes called *the command shell* or *cmd prompt*, or even referred to by its filename *cmd.exe*.”

-Fisher T. (2017). Command Prompt: What It Is and How to Use It. Retrieved December 5, 2017 from <https://www.lifewire.com/command-prompt-2625840>

B. How to use Shell?

Type in the following text in the shell.

```
[gcc main.c -o main]
```

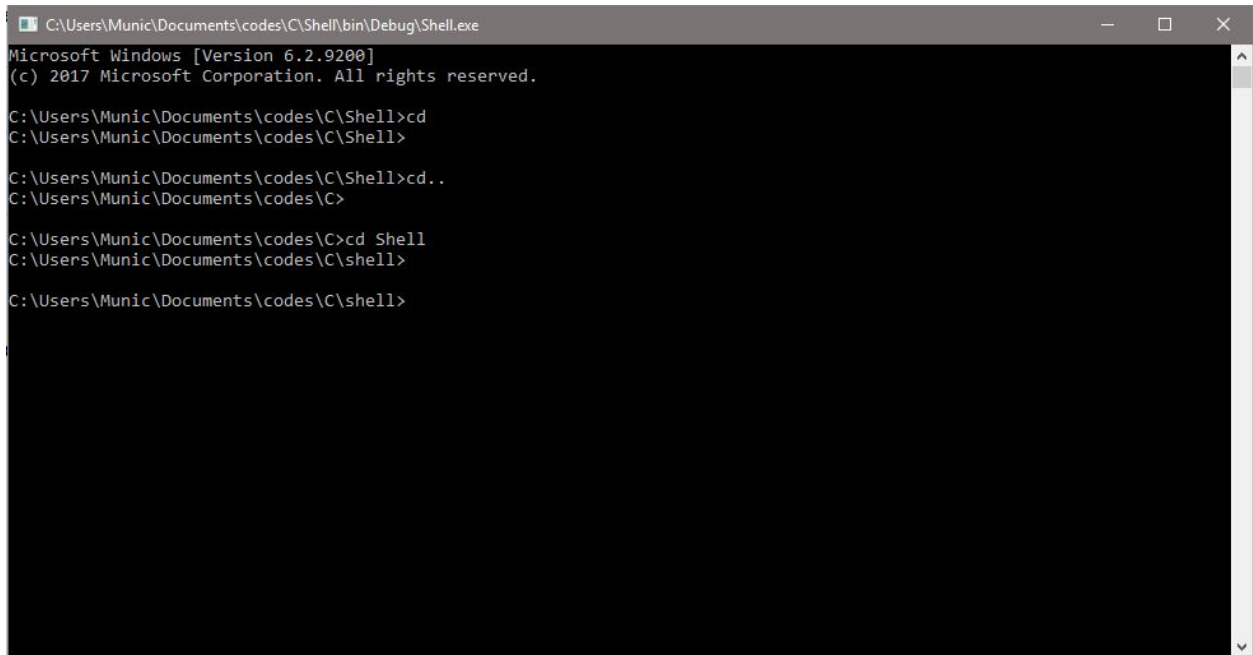
To use Shell, you must enter a valid command along with any optional parameters. The command is case insensitive but we'll use uppercase letters in this manual for consistency.

Command Prompt then executes the command as entered and performs whatever task or function it's designed to perform in Windows.

II. General Options

A. CD - Displays the name of or changes the current directory.

Syntax: [CD] [filepath]



```
C:\Users\Munic\Documents\codes\C\Shell\bin\Debug\Shell.exe
Microsoft Windows [Version 6.2.9200]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Munic\Documents\codes\C\Shell>cd
C:\Users\Munic\Documents\codes\C\Shell>

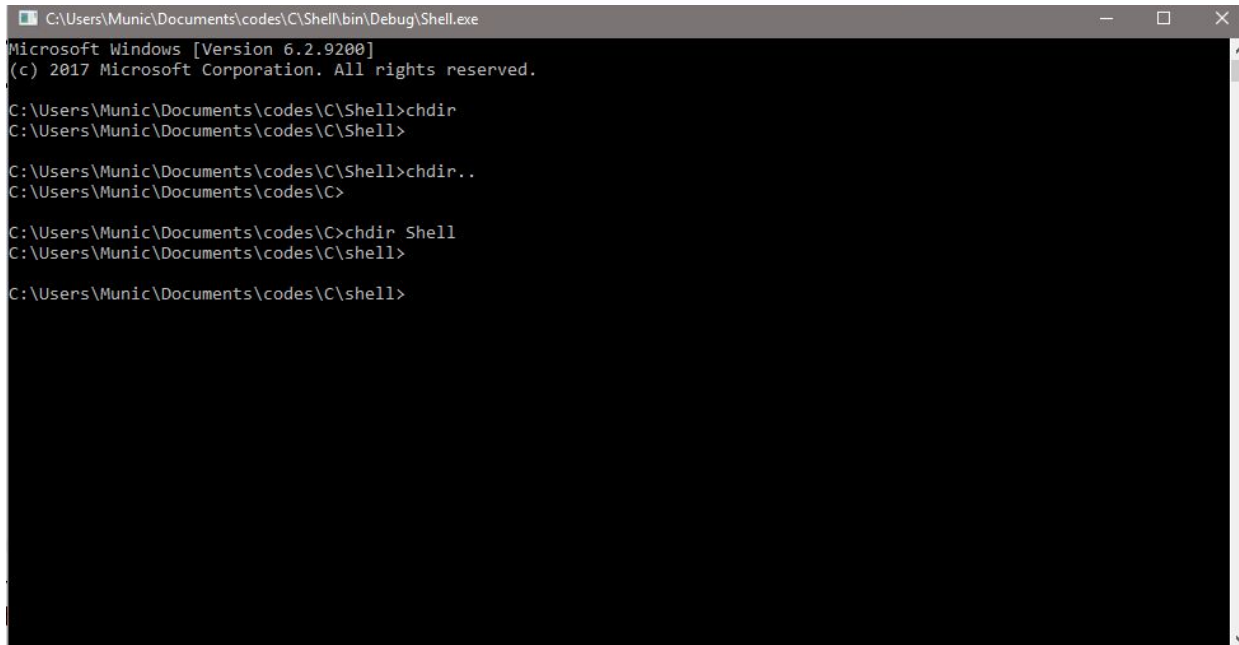
C:\Users\Munic\Documents\codes\C\Shell>cd..
C:\Users\Munic\Documents\codes\C>

C:\Users\Munic\Documents\codes\C>cd Shell
C:\Users\Munic\Documents\codes\C\shell>

C:\Users\Munic\Documents\codes\C\shell>
```

B. CHDIR - Changes the current directory.

Syntax: [CHDIR] [filepath]



```
C:\Users\Munic\Documents\codes\C\Shell\bin\Debug\Shell.exe
Microsoft Windows [Version 6.2.9200]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Munic\Documents\codes\C\Shell>chdir
C:\Users\Munic\Documents\codes\C\Shell>

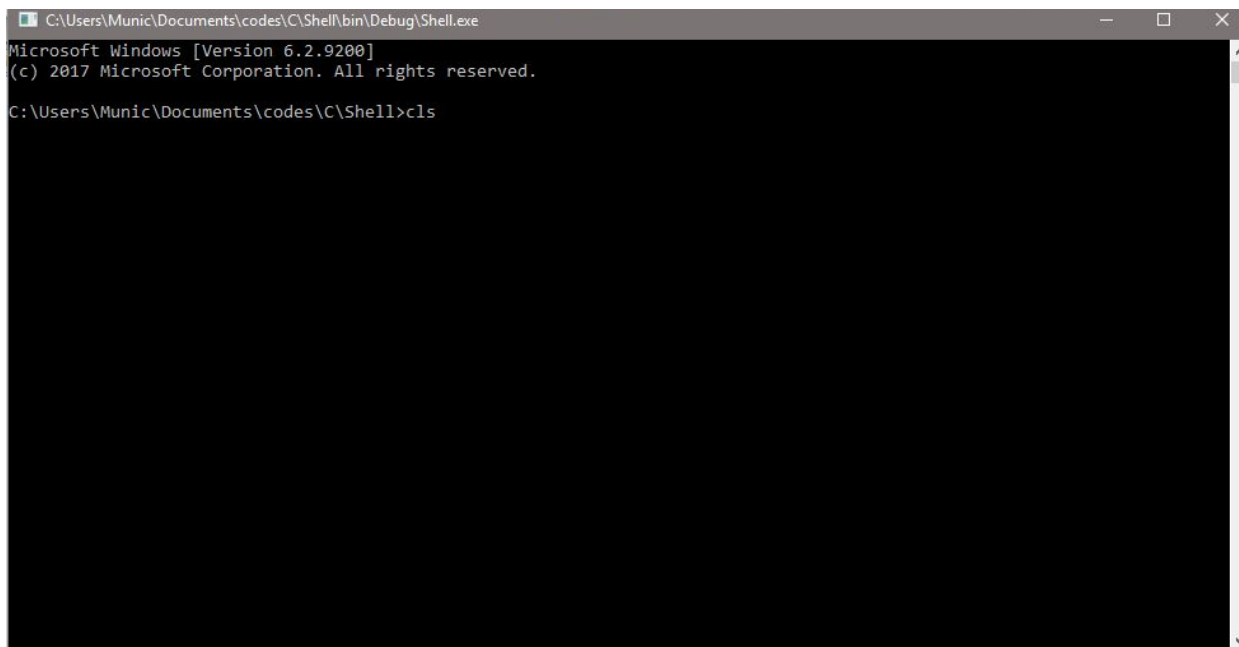
C:\Users\Munic\Documents\codes\C\Shell>chdir..
C:\Users\Munic\Documents\codes\C>

C:\Users\Munic\Documents\codes\C>chdir Shell
C:\Users\Munic\Documents\codes\C\shell>

C:\Users\Munic\Documents\codes\C\shell>
```

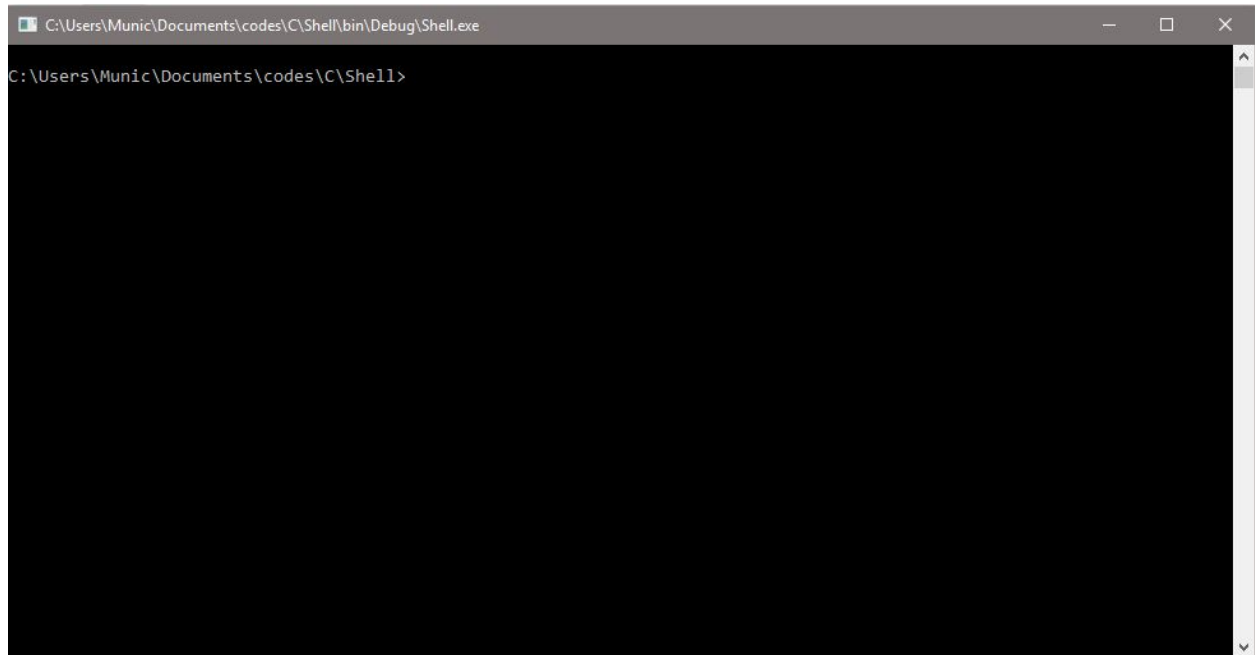
C. CLS - Clears the screen.

Syntax: [CLS]



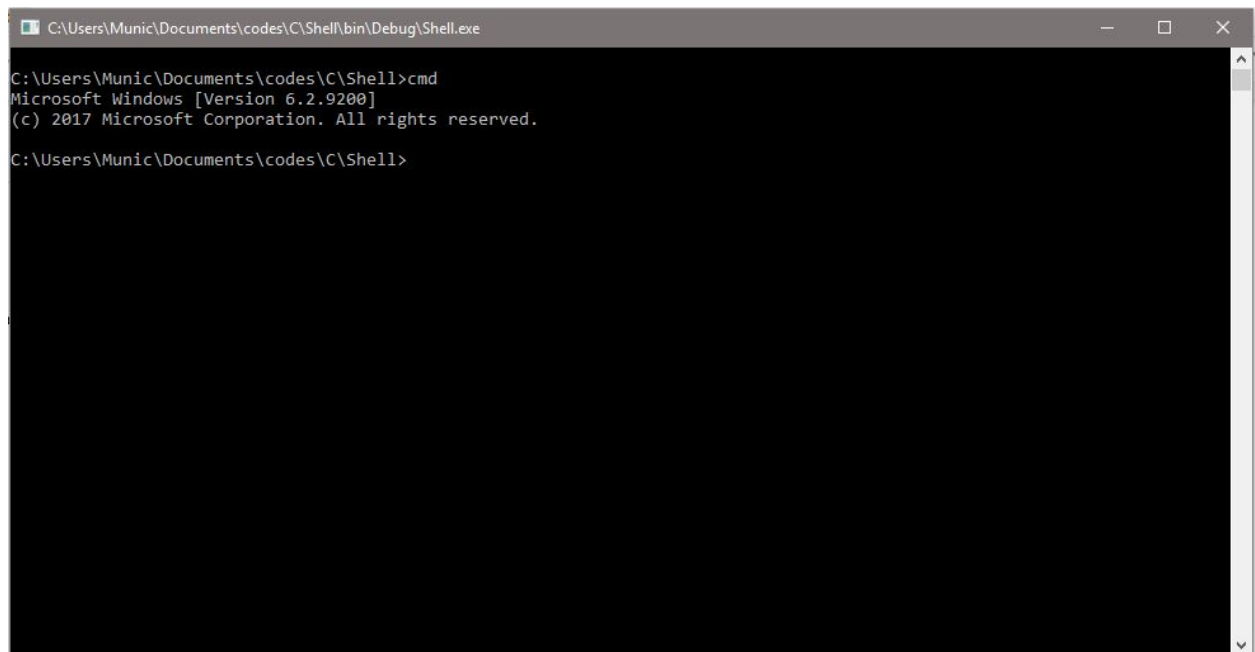
```
C:\Users\Munic\Documents\codes\C\Shell\bin\Debug\Shell.exe
Microsoft Windows [Version 6.2.9200]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Munic\Documents\codes\C\Shell>cls
```



D. CMD - Starts a new instance of the command interpreter.

Syntax: [CMD]



E. COLOR - Sets the default console foreground and background colors.

Syntax: [COLOR] [background] [foreground]

0 = Black

1 = Blue

2 = Green

3 = Aqua

4 = Red

5 = Purple

6 = Yellow

7 = White

8 = Gray

9 = Light Blue

A = Light Green

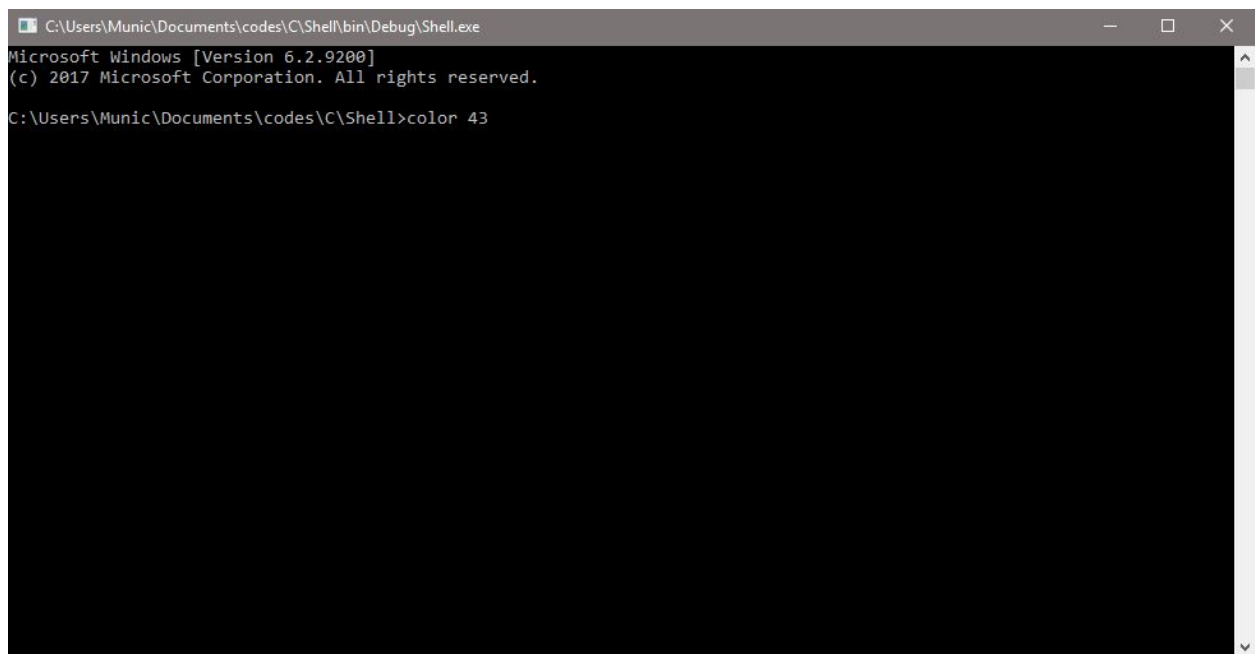
B = Light Aqua

C = Light Red

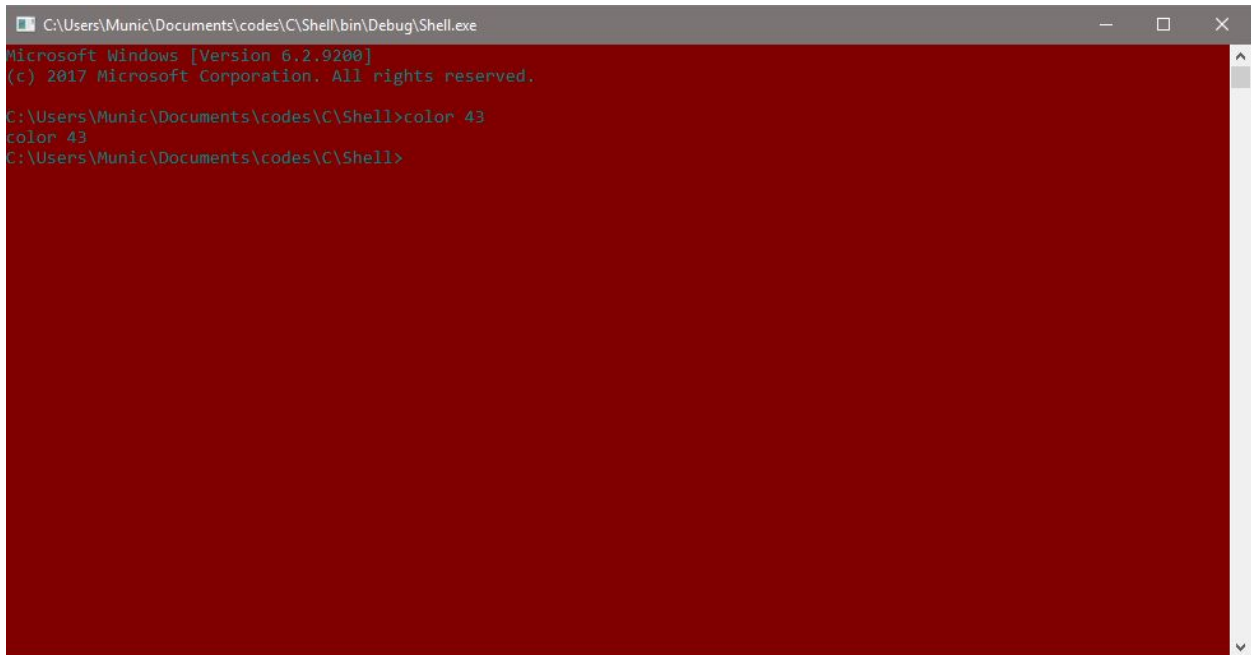
D = Light Purple

E = Light Yellow

F = Bright White



The screenshot shows a Windows command prompt window titled "C:\Users\Munic\Documents\codes\C\Shell\bin\Debug\Shell.exe". The window displays the following text: "Microsoft Windows [Version 6.2.9200] (c) 2017 Microsoft Corporation. All rights reserved. C:\Users\Munic\Documents\codes\C\Shell>color 43". The command prompt is currently black, indicating that the background color has been successfully set to black (color 0).

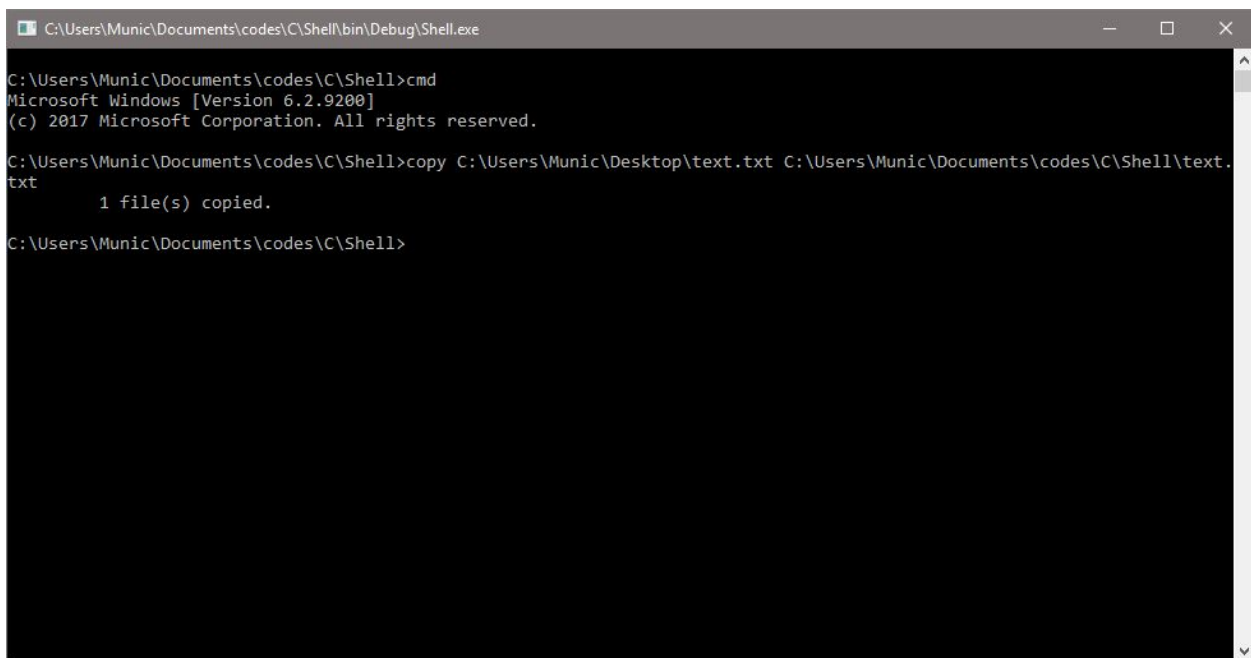


A screenshot of a Windows command prompt window. The title bar shows the path `C:\Users\Munic\Documents\codes\C\Shell\bin\Debug\Shell.exe`. The window has a solid red background. The text displayed is as follows:

```
C:\Users\Munic\Documents\codes\C\Shell>color 43
color 43
C:\Users\Munic\Documents\codes\C\Shell>
```

F. COPY - Copies one or more files to another location.

Syntax: [COPY] [filepath] [filepath]



A screenshot of a Windows command prompt window. The title bar shows the path `C:\Users\Munic\Documents\codes\C\Shell\bin\Debug\Shell.exe`. The window has a black background. The text displayed is as follows:

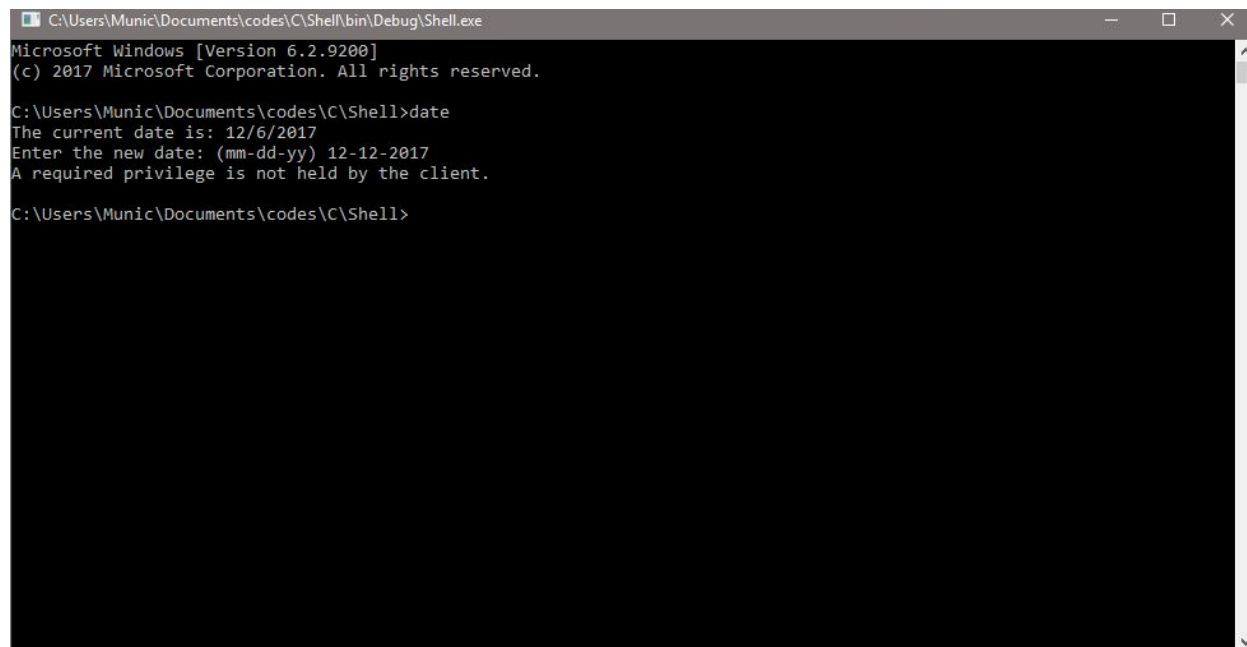
```
C:\Users\Munic\Documents\codes\C\Shell>cmd
Microsoft Windows [Version 6.2.9200]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Munic\Documents\codes\C\Shell>copy C:\Users\Munic\Desktop\text.txt C:\Users\Munic\Documents\codes\C\Shell\text.
txt
1 file(s) copied.

C:\Users\Munic\Documents\codes\C\Shell>
```


G. DATE - Displays or sets the date.

Syntax: [DATE]



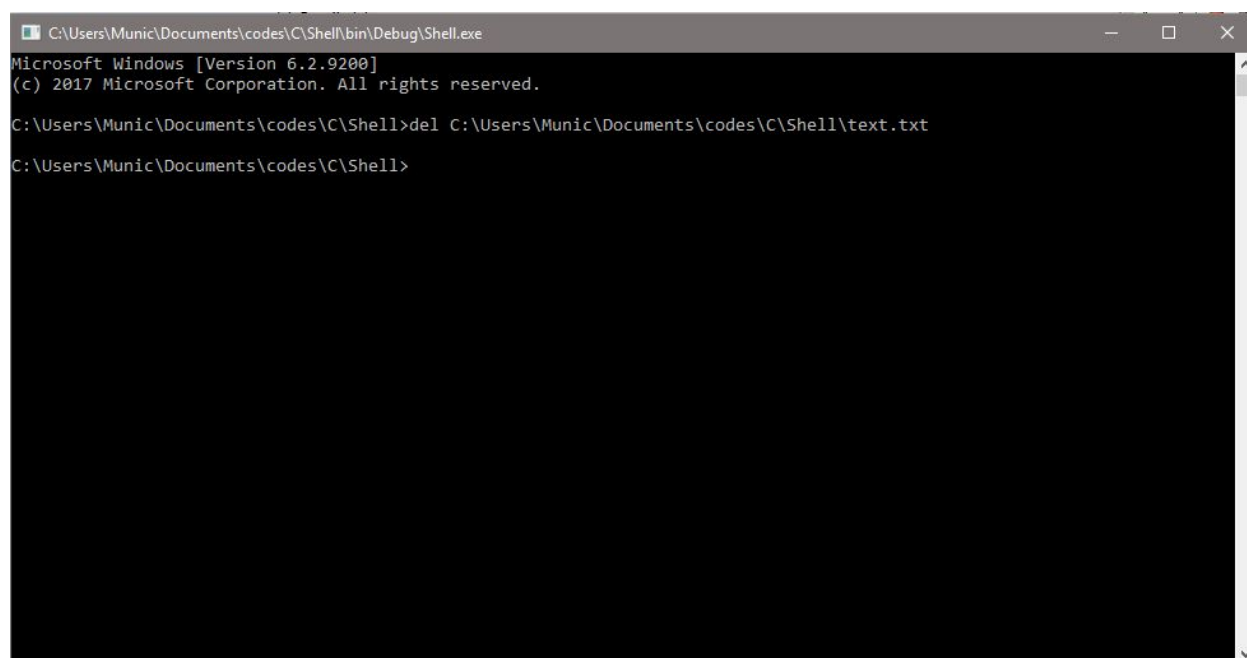
```
C:\Users\Munic\Documents\codes\C\Shell\bin\Debug\Shell.exe
Microsoft Windows [Version 6.2.9200]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Munic\Documents\codes\C\Shell>date
The current date is: 12/6/2017
Enter the new date: (mm-dd-yy) 12-12-2017
A required privilege is not held by the client.

C:\Users\Munic\Documents\codes\C\Shell>
```

H. DEL - Deletes one or more files.

Syntax: [DEL] [filepath]



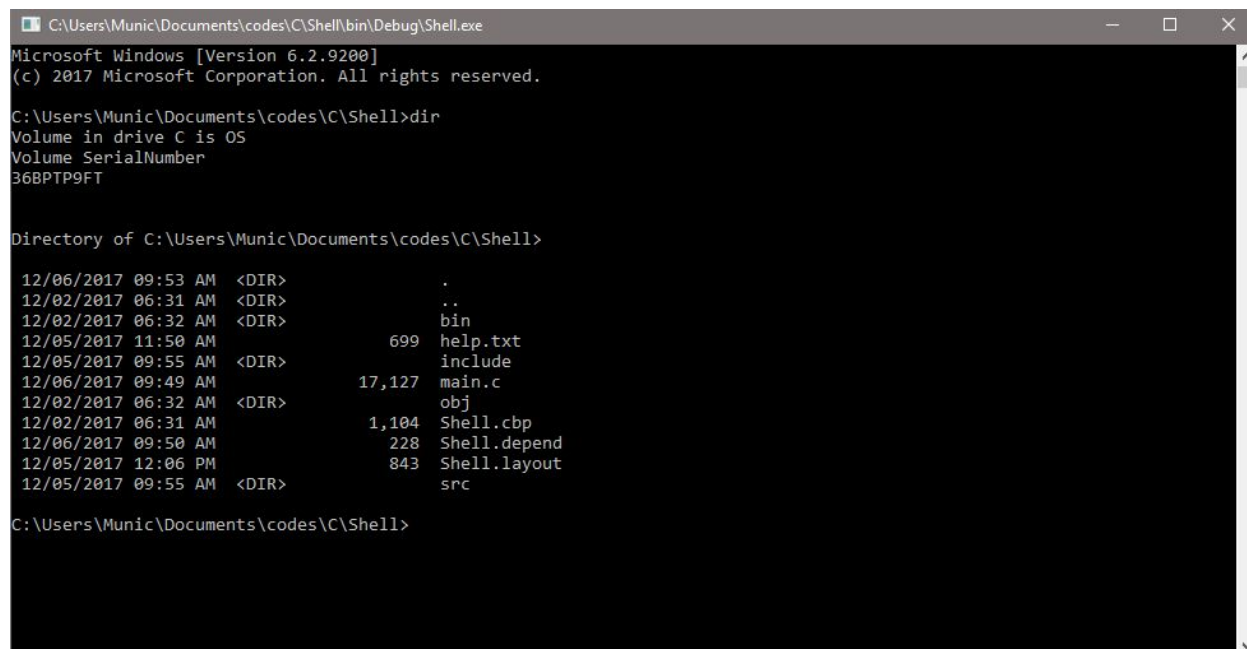
```
C:\Users\Munic\Documents\codes\C\Shell\bin\Debug\Shell.exe
Microsoft Windows [Version 6.2.9200]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Munic\Documents\codes\C\Shell>del C:\Users\Munic\Documents\codes\C\Shell\text.txt

C:\Users\Munic\Documents\codes\C\Shell>
```

I. DIR - Displays a list of files and subdirectories in a directory.

Syntax: [DIR]



```
C:\Users\Munic\Documents\codes\C\Shell\bin\Debug\Shell.exe
Microsoft Windows [Version 6.2.9200]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Munic\Documents\codes\C\Shell>dir
Volume in drive C is OS
Volume SerialNumber
36BPT9FT

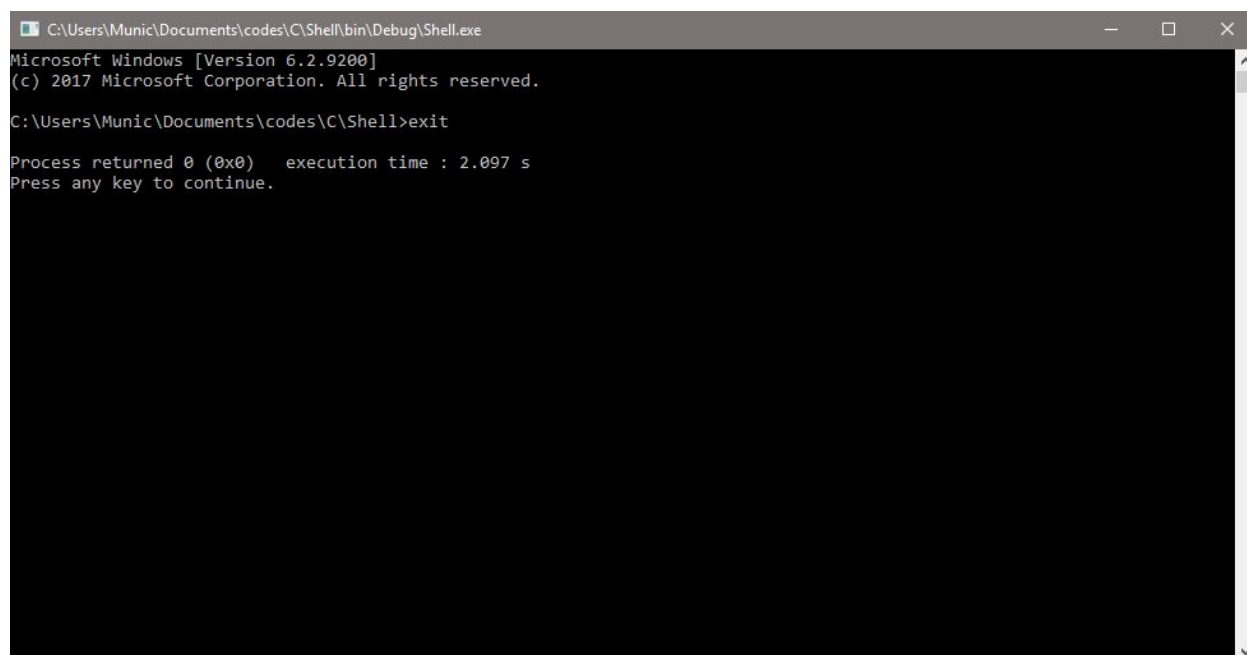
Directory of C:\Users\Munic\Documents\codes\C\Shell>

12/06/2017 09:53 AM <DIR>          .
12/02/2017 06:31 AM <DIR>          ..
12/02/2017 06:32 AM <DIR>          bin
12/05/2017 11:50 AM                699 help.txt
12/05/2017 09:55 AM <DIR>          include
12/06/2017 09:49 AM            17,127 main.c
12/02/2017 06:32 AM <DIR>          obj
12/02/2017 06:31 AM            1,104 Shell.cbp
12/06/2017 09:50 AM                228 Shell.depend
12/05/2017 12:06 PM                843 Shell.layout
12/05/2017 09:55 AM <DIR>          src

C:\Users\Munic\Documents\codes\C\Shell>
```

J. EXIT - Closes the Shell

Syntax: [EXIT]



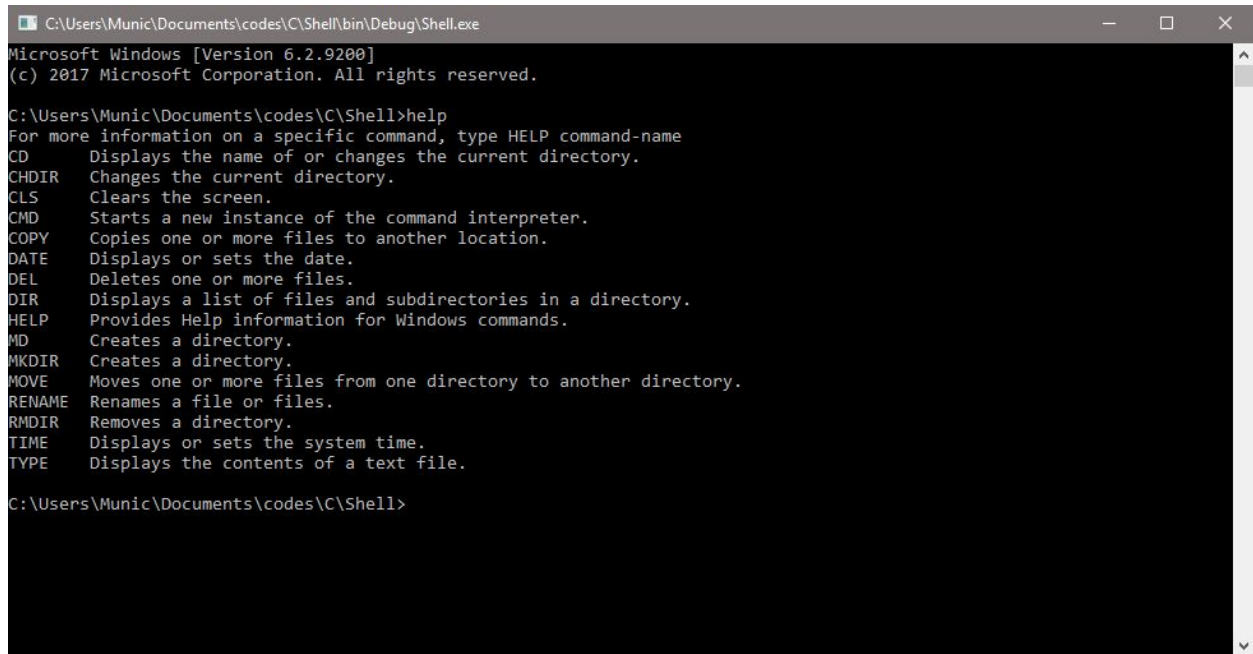
```
C:\Users\Munic\Documents\codes\C\Shell\bin\Debug\Shell.exe
Microsoft Windows [Version 6.2.9200]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Munic\Documents\codes\C\Shell>exit

Process returned 0 (0x0)   execution time : 2.097 s
Press any key to continue.
```

K. HELP - Provides Help information for Windows commands.

Syntax: [HELP]



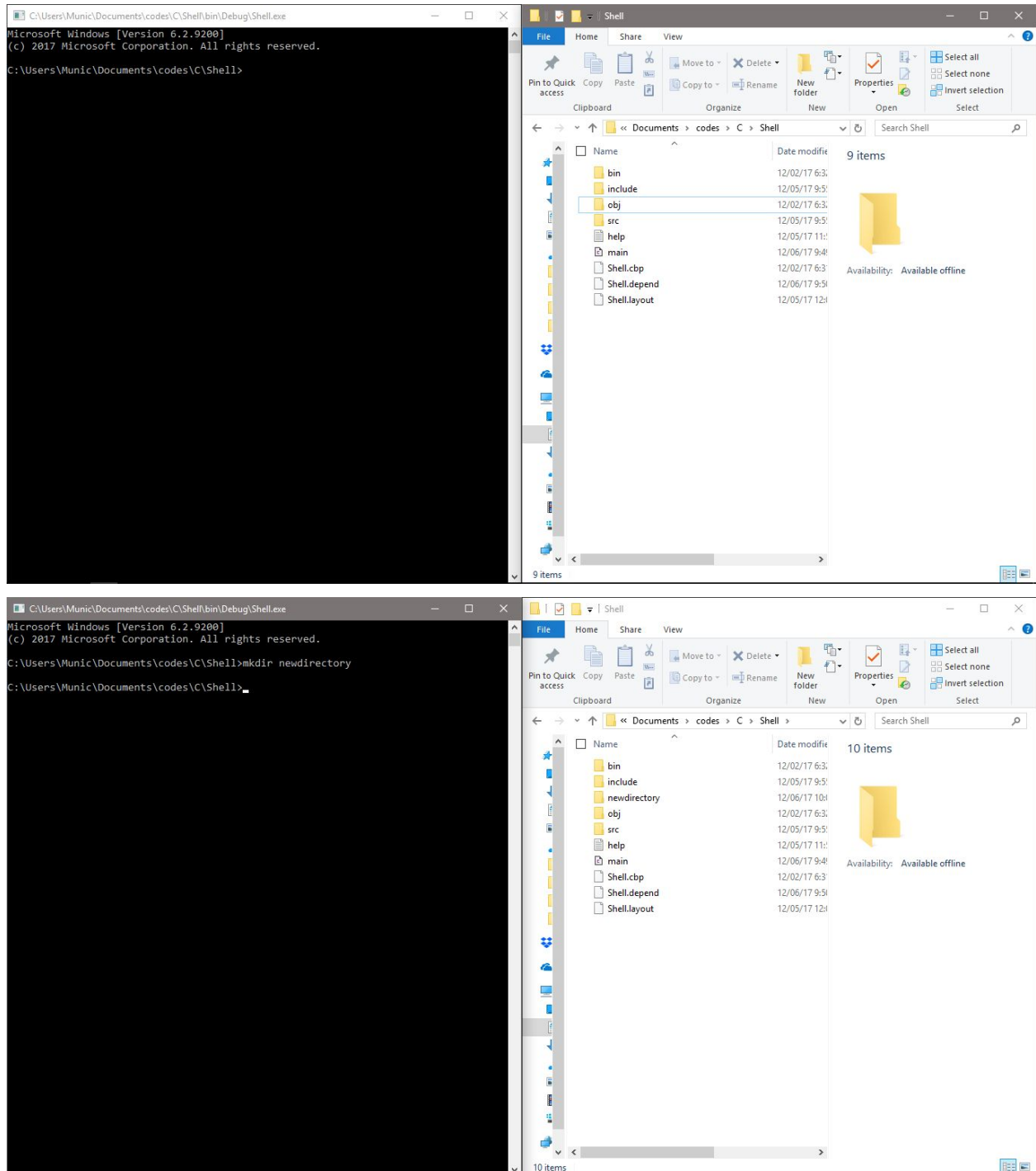
```
C:\Users\Munic\Documents\codes\C\Shell\bin\Debug\Shell.exe
Microsoft Windows [Version 6.2.9200]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Munic\Documents\codes\C\Shell>help
For more information on a specific command, type HELP command-name
CD      Displays the name of or changes the current directory.
CHDIR   Changes the current directory.
CLS     Clears the screen.
CMD     Starts a new instance of the command interpreter.
COPY    Copies one or more files to another location.
DATE    Displays or sets the date.
DEL     Deletes one or more files.
DIR     Displays a list of files and subdirectories in a directory.
HELP    Provides Help information for Windows commands.
MD      Creates a directory.
MKDIR   Creates a directory.
MOVE    Moves one or more files from one directory to another directory.
RENAME  Renames a file or files.
RMDIR   Removes a directory.
TIME    Displays or sets the system time.
TYPE    Displays the contents of a text file.

C:\Users\Munic\Documents\codes\C\Shell>
```

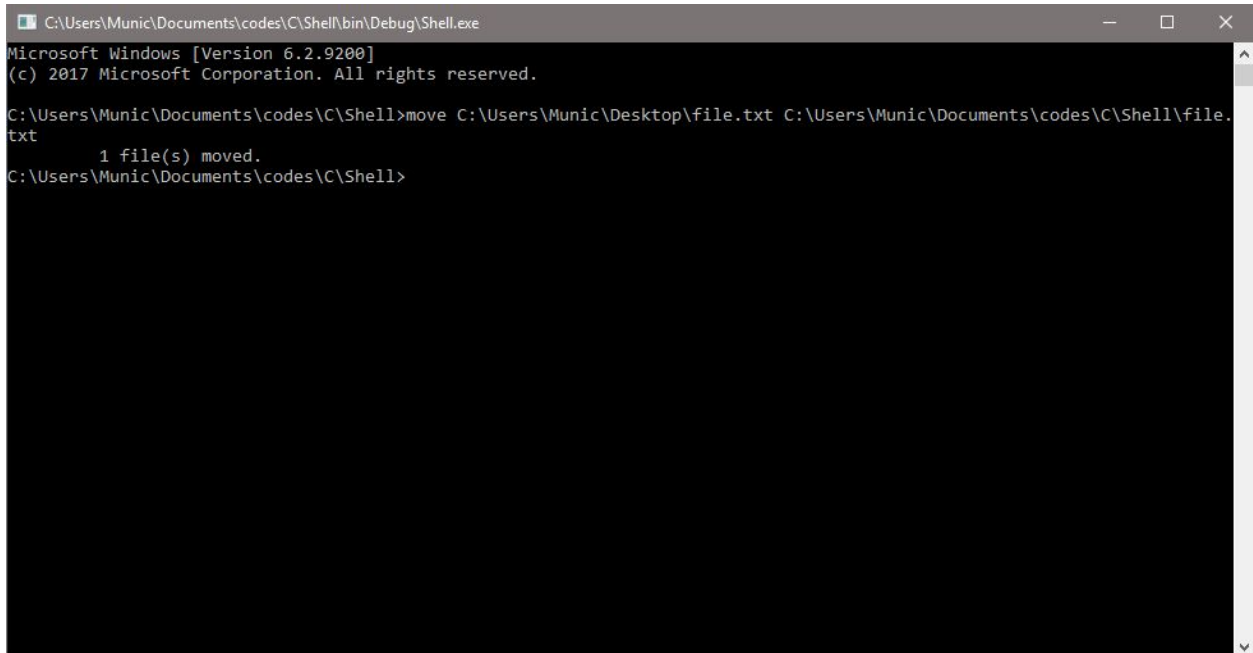
L. MKDIR/MD - Creates a directory.

Syntax: [MKDIR/MD]



M. MOVE - Moves one or more files from one directory to another directory.

Syntax: [MOVE] [filepath] [filepath]

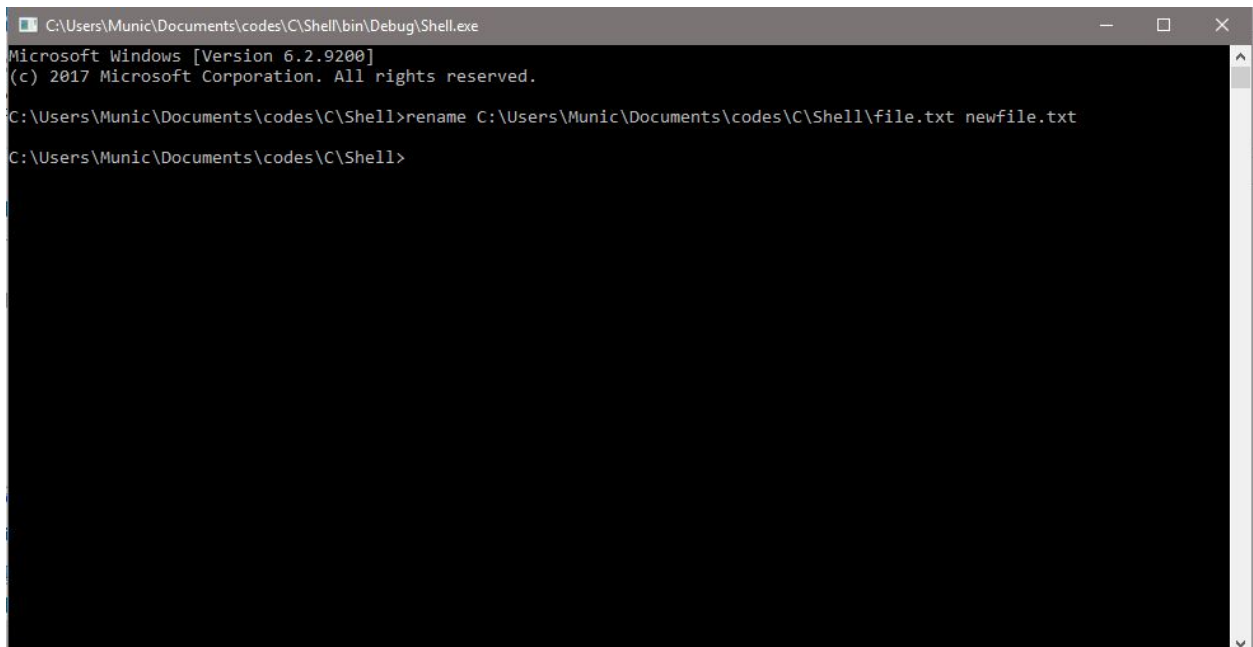


```
C:\Users\Munic\Documents\codes\C\Shell\bin\Debug\Shell.exe
Microsoft Windows [Version 6.2.9200]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Munic\Documents\codes\C\Shell>move C:\Users\Munic\Desktop\file.txt C:\Users\Munic\Documents\codes\C\Shell\file.
txt
        1 file(s) moved.
C:\Users\Munic\Documents\codes\C\Shell>
```

N. RENAME/REN - Renames a file or files.

Syntax: [RENAME/REN] [filepath] [filepath+newName / newName]

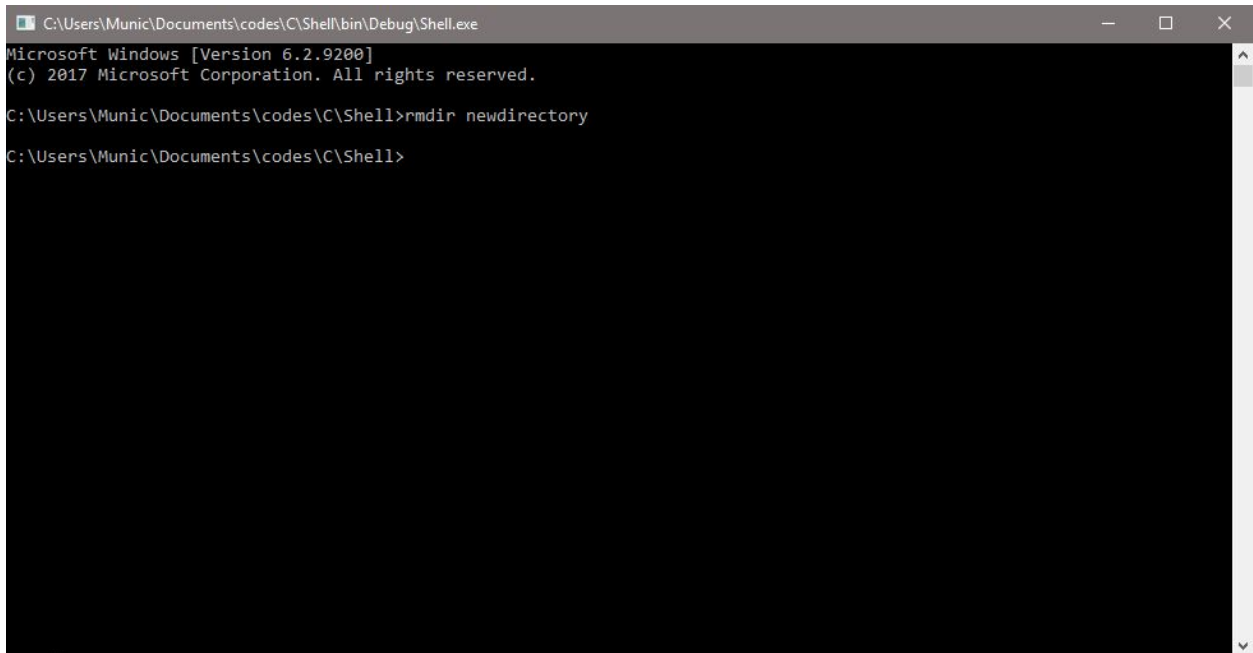


```
C:\Users\Munic\Documents\codes\C\Shell\bin\Debug\Shell.exe
Microsoft Windows [Version 6.2.9200]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Munic\Documents\codes\C\Shell>rename C:\Users\Munic\Documents\codes\C\Shell\file.txt newfile.txt
C:\Users\Munic\Documents\codes\C\Shell>
```

O. RMDIR - Removes a directory.

Syntax: [RMDIR / RD] [filepath]



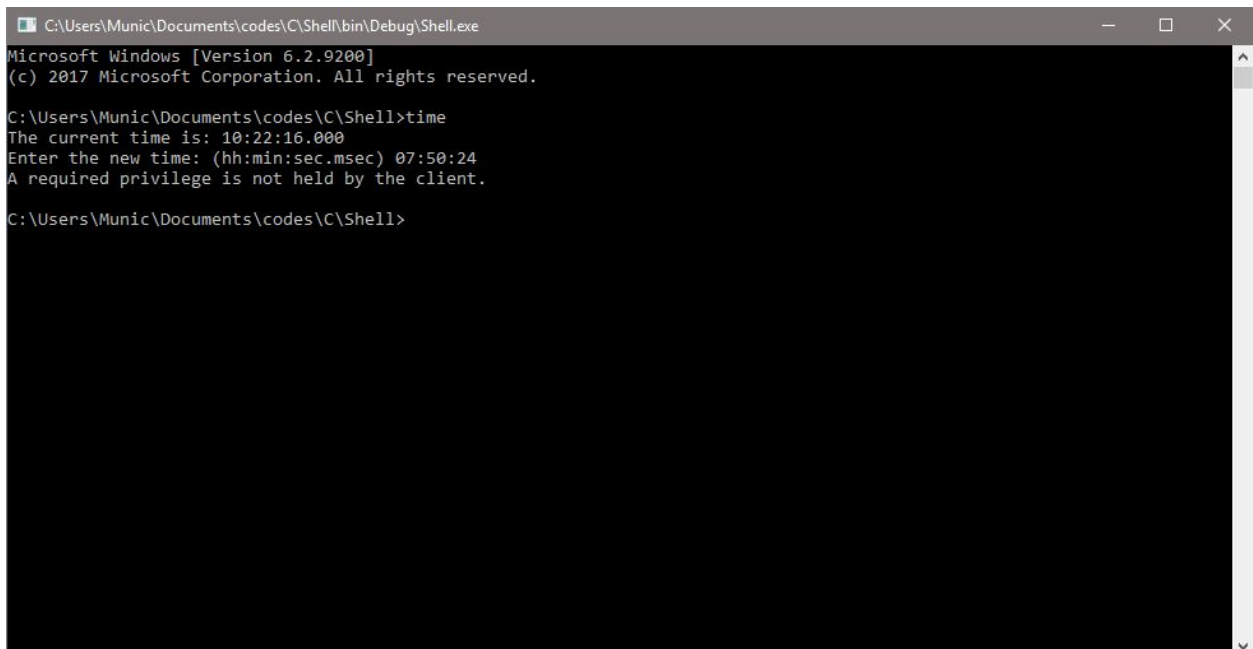
```
C:\Users\Munic\Documents\codes\C\Shell\bin\Debug\Shell.exe
Microsoft Windows [Version 6.2.9200]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Munic\Documents\codes\C\Shell>rmdir newdirectory

C:\Users\Munic\Documents\codes\C\Shell>
```

P. TIME - Displays or sets the system time.

Syntax: [TIME]



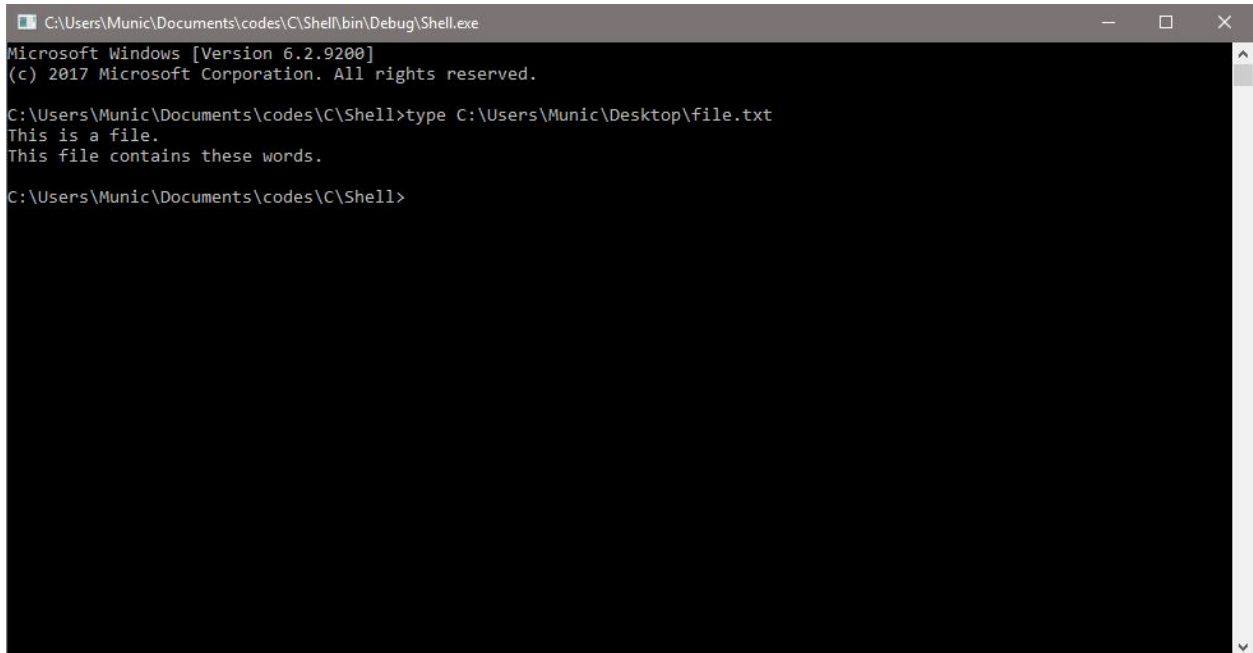
```
C:\Users\Munic\Documents\codes\C\Shell\bin\Debug\Shell.exe
Microsoft Windows [Version 6.2.9200]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Munic\Documents\codes\C\Shell>time
The current time is: 10:22:16.000
Enter the new time: (hh:mm:ss.msec) 07:50:24
A required privilege is not held by the client.

C:\Users\Munic\Documents\codes\C\Shell>
```

Q. TYPE - Displays the contents of a text file.

Syntax: [TYPE] [filepath]



A screenshot of a Windows command prompt window. The title bar at the top reads "C:\Users\Munic\Documents\codes\C\Shell\bin\Debug\Shell.exe" and includes standard minimize, maximize, and close buttons. The command prompt displays the following text: "Microsoft Windows [Version 6.2.9200] (c) 2017 Microsoft Corporation. All rights reserved." followed by the command "C:\Users\Munic\Documents\codes\C\Shell>type C:\Users\Munic\Desktop\file.txt". The output of the command is "This is a file." and "This file contains these words." The prompt then returns to "C:\Users\Munic\Documents\codes\C\Shell>".