

AIM

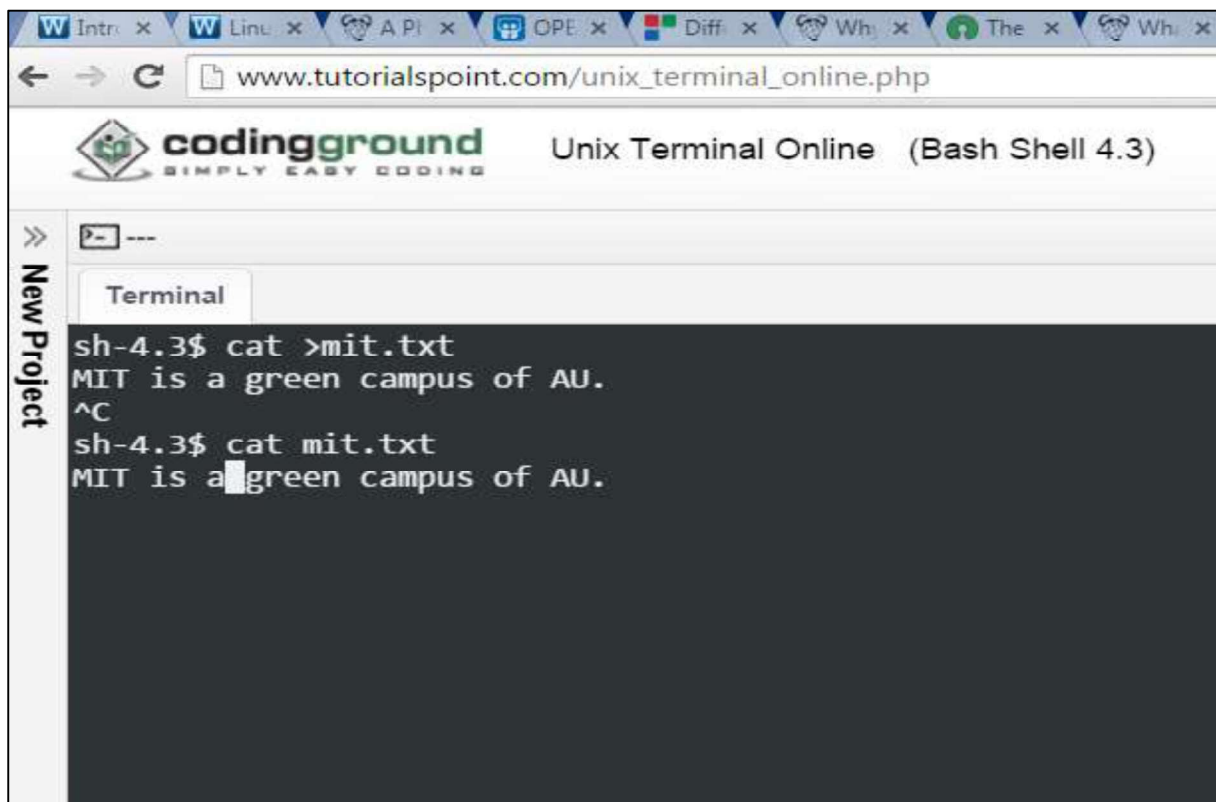
To study and implement about the various basic linux commands.

I. FILE RELATED COMMANDS**1. cat**

- The cat command is used to create a file.
- The cat command is used to display the contents of a file.
- The cat command is also used merge multiple files into a single file

Syntax

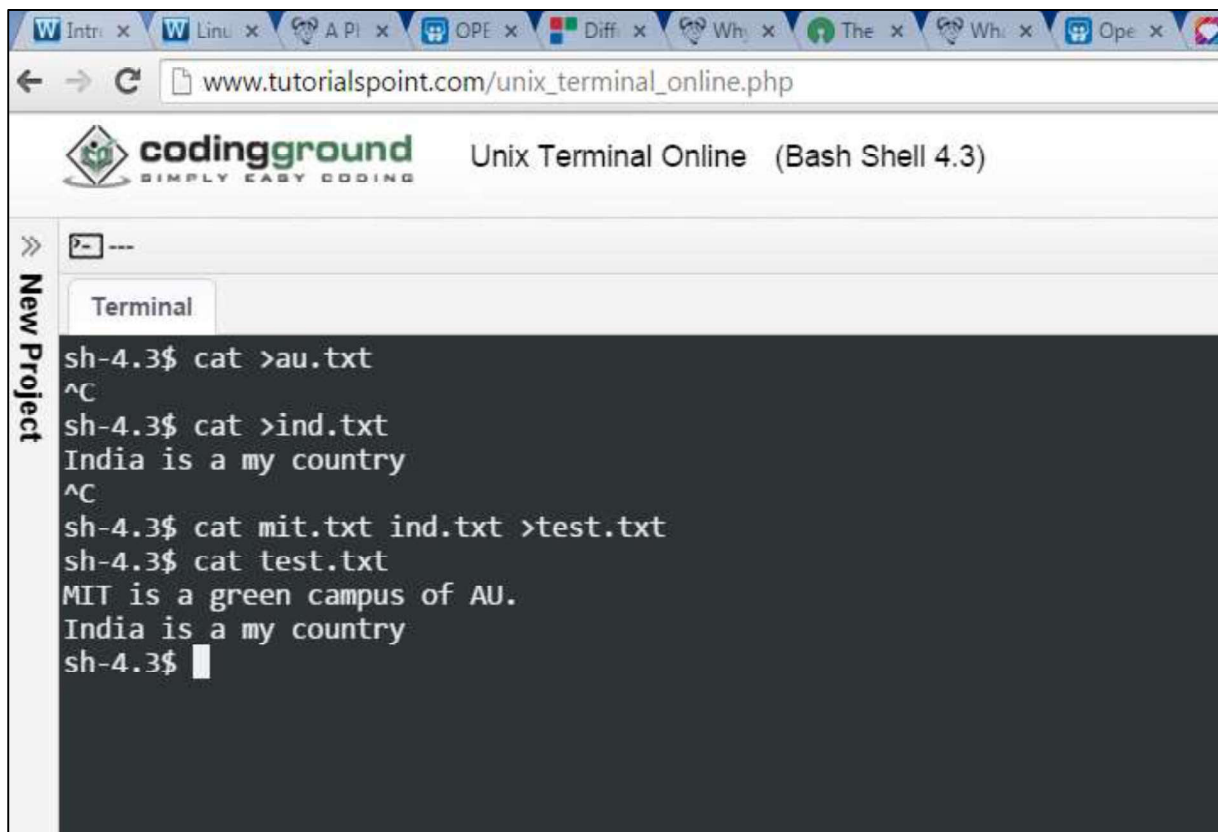
\$ cat > filename	(Create a new file)
\$ cat <filename>	(Display the contents of file)
\$ cat file1 file2 >file3	(merge the contents of file1, file2 into file 3)

1.1 File Creation & Display its Contents using cat command

The screenshot shows a web browser window with the address bar displaying www.tutorialspoint.com/unix_terminal_online.php. The page features the 'codingground' logo and the text 'Unix Terminal Online (Bash Shell 4.3)'. On the left side, there is a vertical sidebar with a 'New Project' button. The main terminal area has a 'Terminal' tab selected. The terminal output shows the following commands and results:

```
sh-4.3$ cat >mit.txt
MIT is a green campus of AU.
^C
sh-4.3$ cat mit.txt
MIT is a green campus of AU.
```

1. 2 Files Merging using cat command



```
sh-4.3$ cat >au.txt
^C
sh-4.3$ cat >ind.txt
India is a my country
^C
sh-4.3$ cat mit.txt ind.txt >test.txt
sh-4.3$ cat test.txt
MIT is a green campus of AU.
India is a my country
sh-4.3$
```

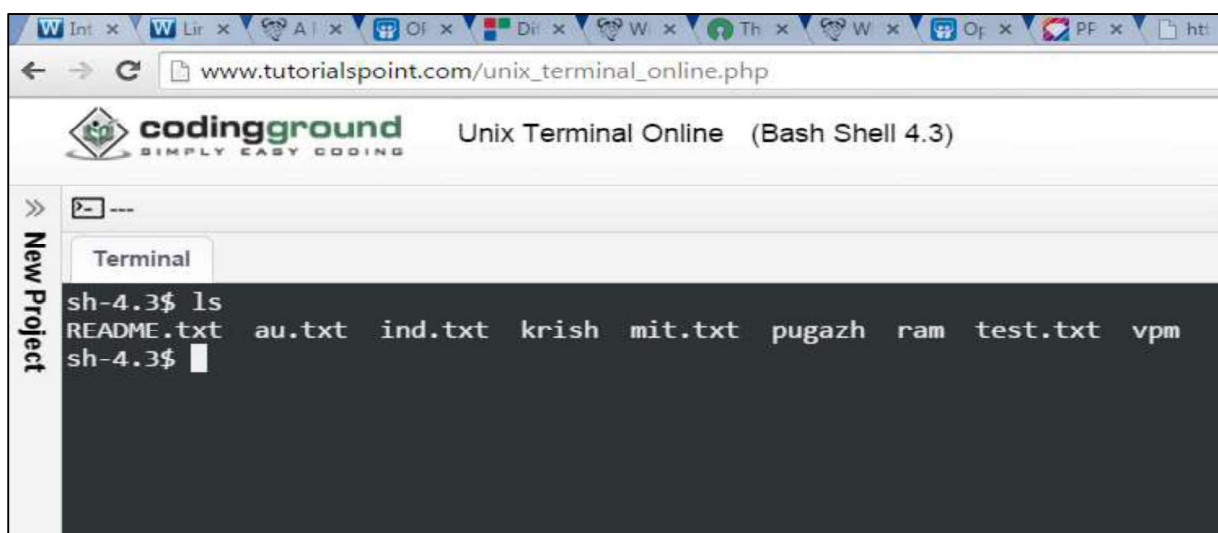
2. Is command

- Listing files and directories
- The ls command is used to display the contents of a directory.

Syntax

\$ ls → View the contents of directory

2. Displaying Files and Folders



```
sh-4.3$ ls
README.txt  au.txt  ind.txt  krish  mit.txt  pugazh  ram  test.txt  vpm
sh-4.3$
```

3. clear command

- This command is used to clear the terminal screen
- \$ clear

II. DIRECTORY RELATED COMMANDS

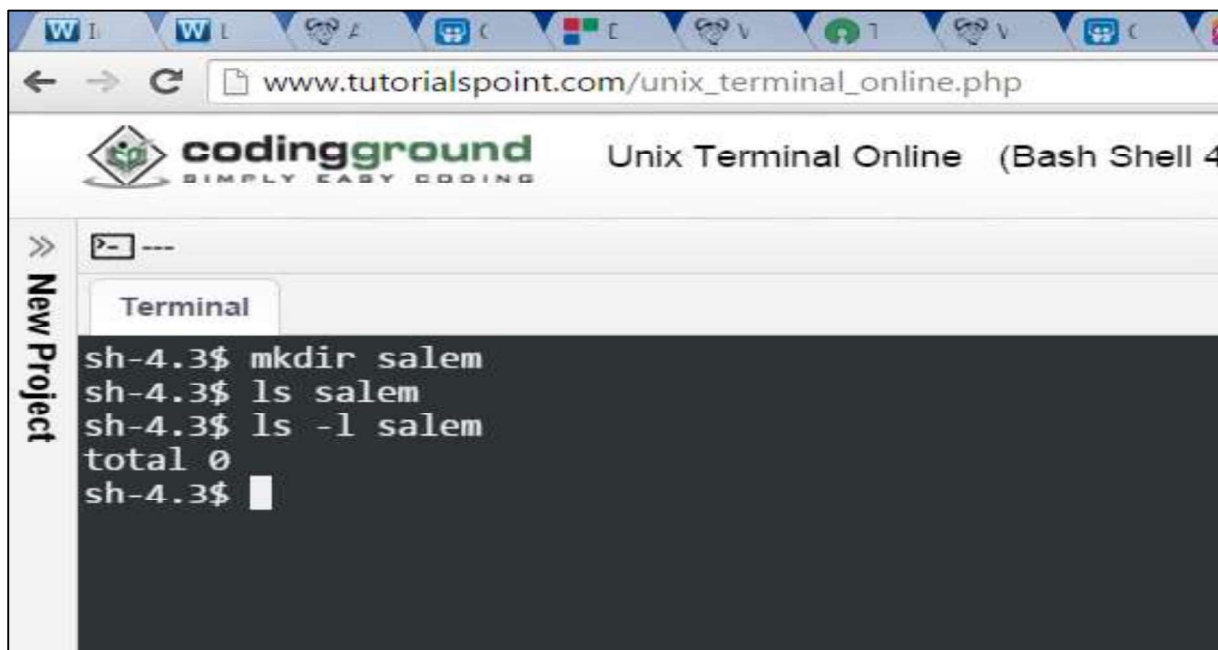
1. mkdir

- This command is used create an empty directory in a disk

Syntax

\$ mkdir <dname>

1.1 Empty Directory Creation



```
sh-4.3$ mkdir salem
sh-4.3$ ls salem
sh-4.3$ ls -l salem
total 0
sh-4.3$
```

2. rmdir

- This command is used remove a directory from the disk

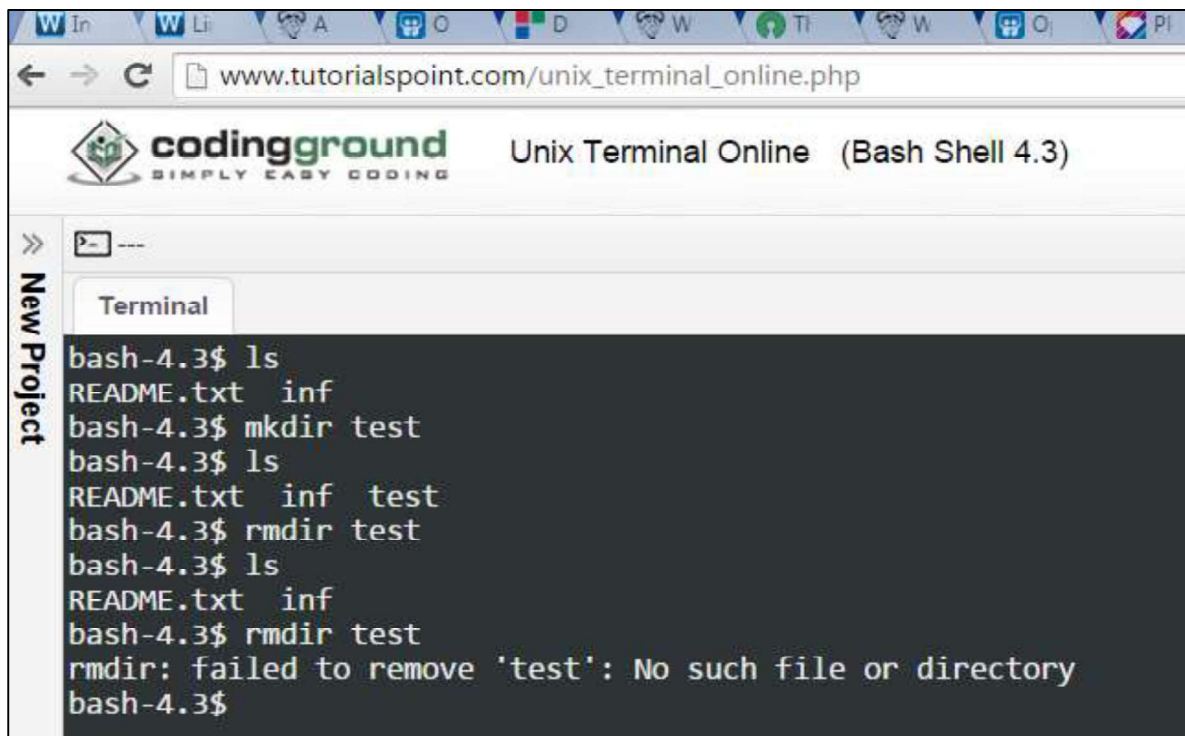
Rules for Directory Deletion

- Directory must be empty
- Directory can't be current working directory

Syntax

\$ rmdir <dname>

2.1 Empty Directory Deletion



```
bash-4.3$ ls
README.txt  inf
bash-4.3$ mkdir test
bash-4.3$ ls
README.txt  inf  test
bash-4.3$ rmdir test
bash-4.3$ ls
README.txt  inf
bash-4.3$ rmdir test
rmdir: failed to remove 'test': No such file or directory
bash-4.3$
```

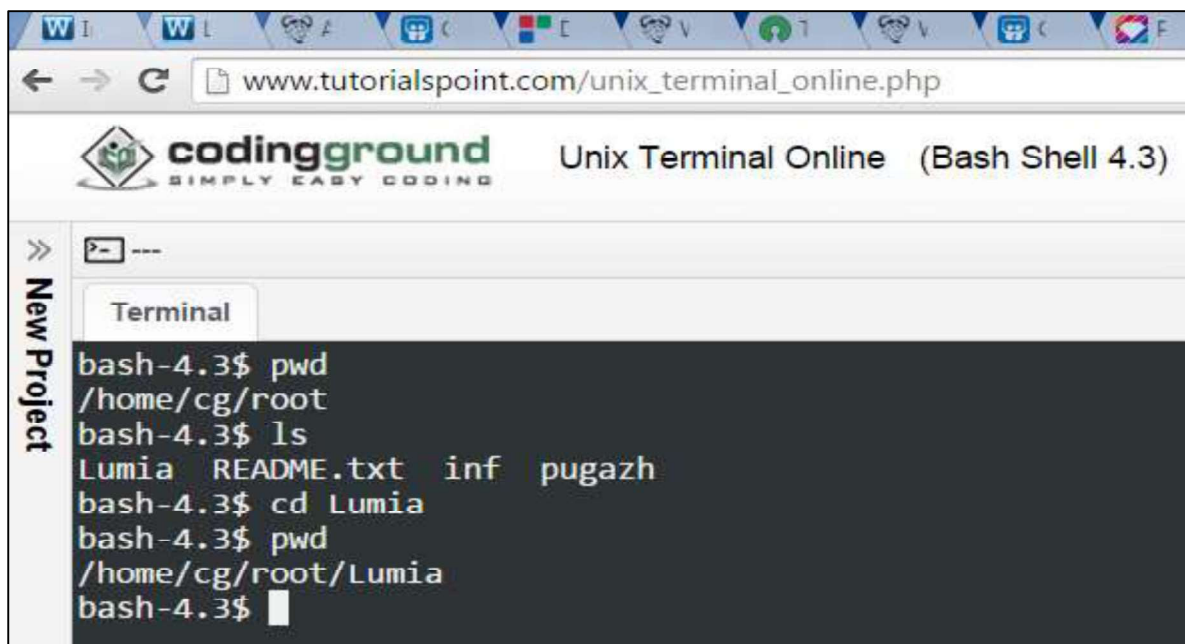
3. cd

- This command is used to move from one directory to another directory.

Syntax

\$ cd <lname>

3.1 Changing the Working Directory



```
bash-4.3$ pwd
/home/cg/root
bash-4.3$ ls
Lumia  README.txt  inf  pugazh
bash-4.3$ cd Lumia
bash-4.3$ pwd
/home/cg/root/Lumia
bash-4.3$ ls
```

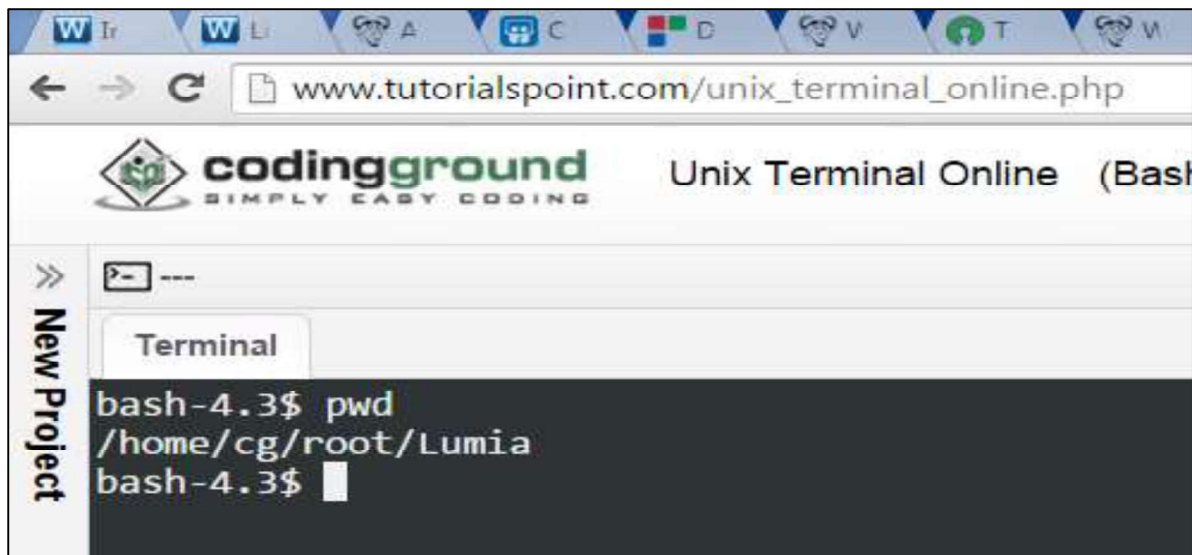
4. pwd

- pwd stands for "**print working directory**"
- This command is used to print the current working directory

Syntax

\$ cd <lname>

4.1 Displaying Current Working Directory



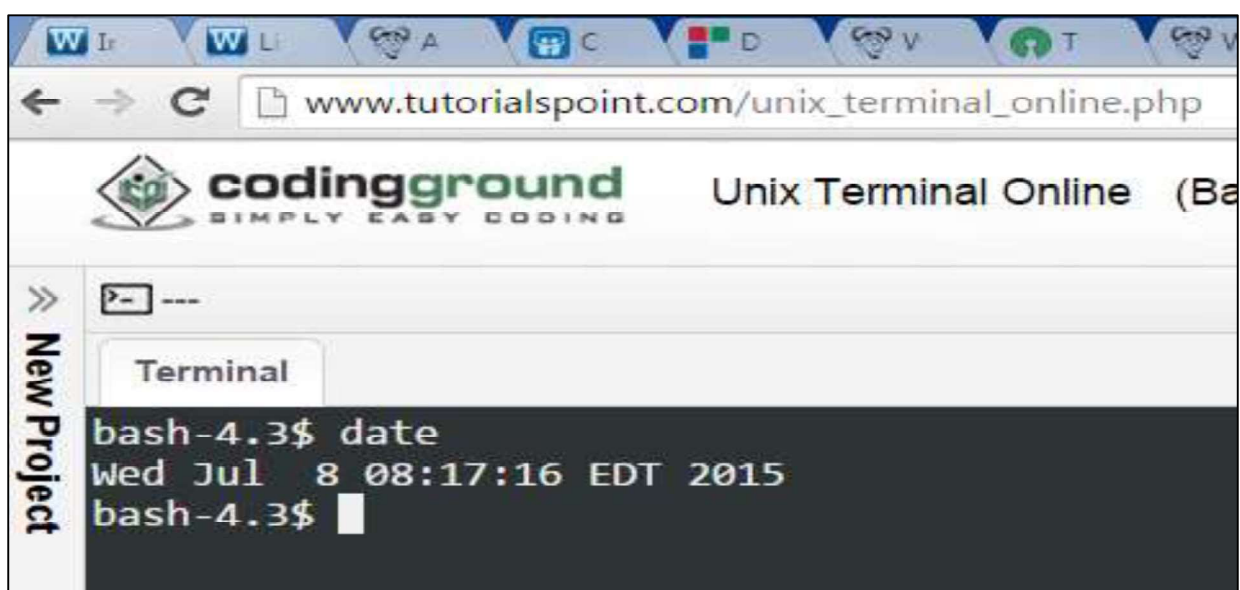
The screenshot shows a web browser window with the address bar displaying www.tutorialspoint.com/unix_terminal_online.php. The page features the 'codingground' logo and the text 'Unix Terminal Online (Bash)'. A terminal window is open, showing the command 'pwd' being entered and executed. The output of the command is '/home/cg/root/Lumia'.

III. General Purpose Commands

1. date command

- This command is used to display the current date with day, month, date, time (24 Hrs clock) & year
- \$ date

1. Output

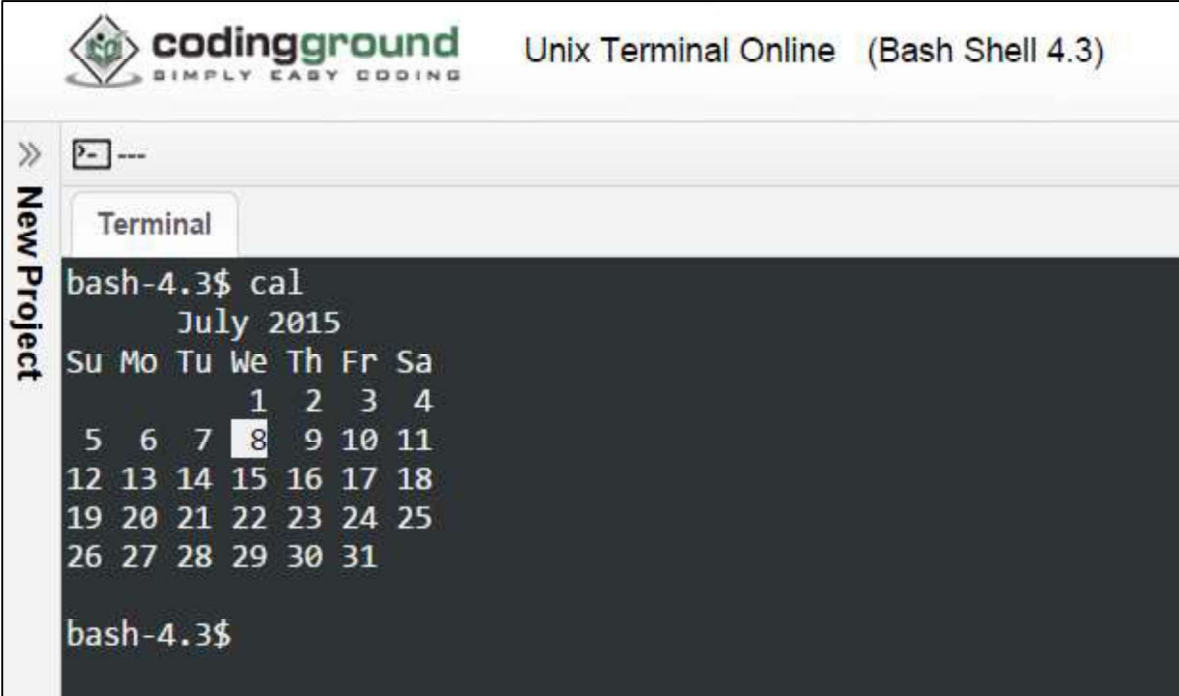


The screenshot shows a web browser window with the address bar displaying www.tutorialspoint.com/unix_terminal_online.php. The page features the 'codingground' logo and the text 'Unix Terminal Online (Bash)'. A terminal window is open, showing the command 'date' being entered and executed. The output of the command is 'Wed Jul 8 08:17:16 EDT 2015'.

2. cal command

- Linux calendar
- This command is used to display the current month, all months of particular year
- `$ cal` (Show the current month of current year)
- `$ cal 2015` (Show all months in year 2015)

2.1 Displaying Current Month

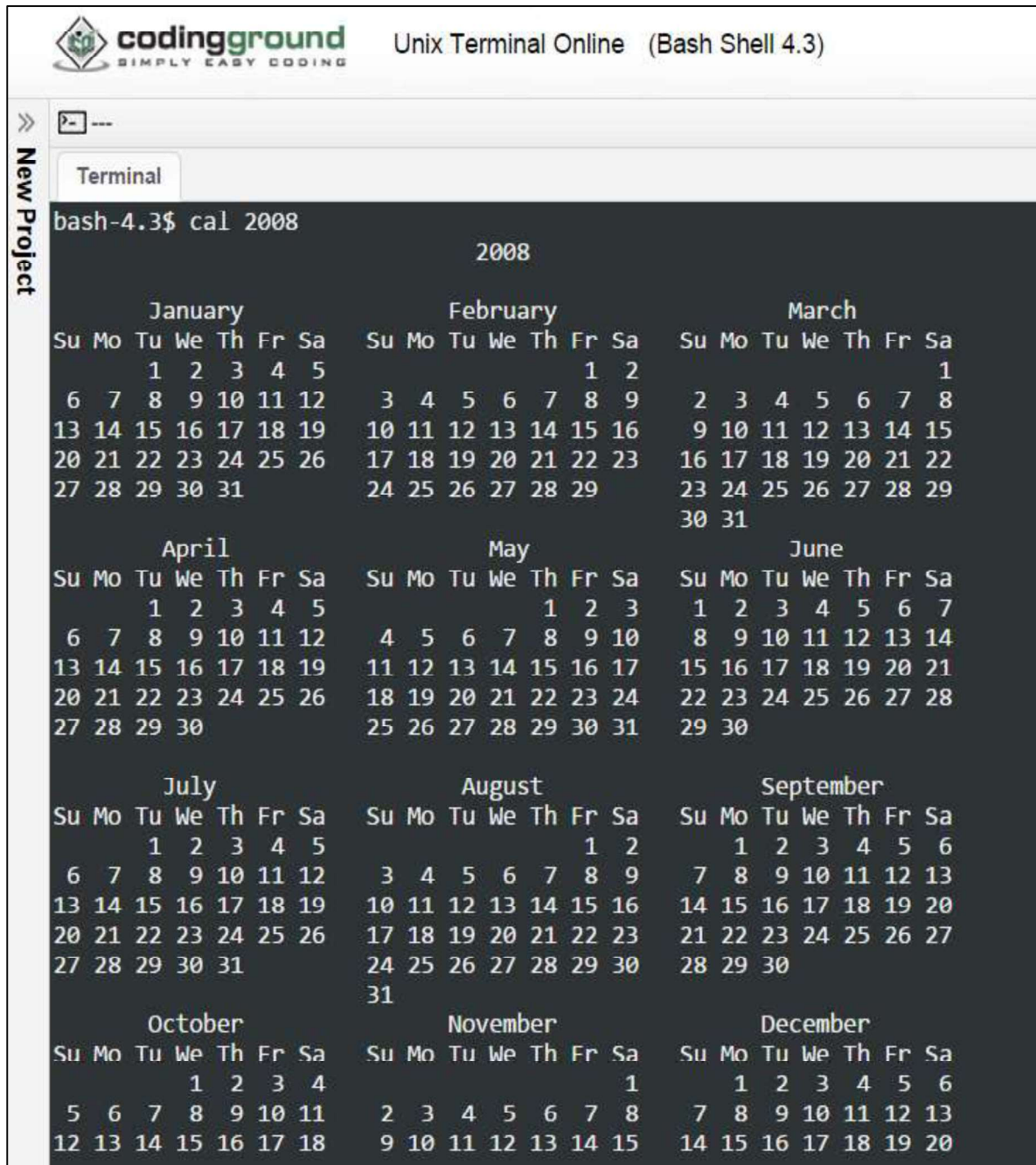


The screenshot shows a web-based terminal interface. At the top, there is a logo for 'codingground' with the tagline 'SIMPLY EASY CODING' and the text 'Unix Terminal Online (Bash Shell 4.3)'. On the left side, there is a vertical sidebar with a 'New Project' button. The main terminal area has a title bar 'Terminal' and a dark background. The command prompt is 'bash-4.3\$'. The user has entered 'cal', and the output displays the calendar for July 2015. The calendar is formatted as a table with days of the week as headers and dates as values. The 8th of July is highlighted with a light blue background.

```
bash-4.3$ cal
      July 2015
Su Mo Tu We Th Fr Sa
                1  2  3  4
 5  6  7  8  9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30 31

bash-4.3$
```


2.2 Displaying Entire Year



```
bash-4.3$ cal 2008

                2008

   January           February           March
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
      1  2  3  4  5          1  2          2  3  4  5  6  7  8
  6  7  8  9 10 11 12    3  4  5  6  7  8  9    9 10 11 12 13 14 15
13 14 15 16 17 18 19    10 11 12 13 14 15 16   16 17 18 19 20 21 22
20 21 22 23 24 25 26    17 18 19 20 21 22 23   23 24 25 26 27 28 29
27 28 29 30 31         24 25 26 27 28 29       30 31

   April             May               June
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
      1  2  3  4  5          1  2  3          1  2  3  4  5  6  7
  6  7  8  9 10 11 12    4  5  6  7  8  9 10    8  9 10 11 12 13 14
13 14 15 16 17 18 19    11 12 13 14 15 16 17   15 16 17 18 19 20 21
20 21 22 23 24 25 26    18 19 20 21 22 23 24   22 23 24 25 26 27 28
27 28 29 30         25 26 27 28 29 30 31   29 30

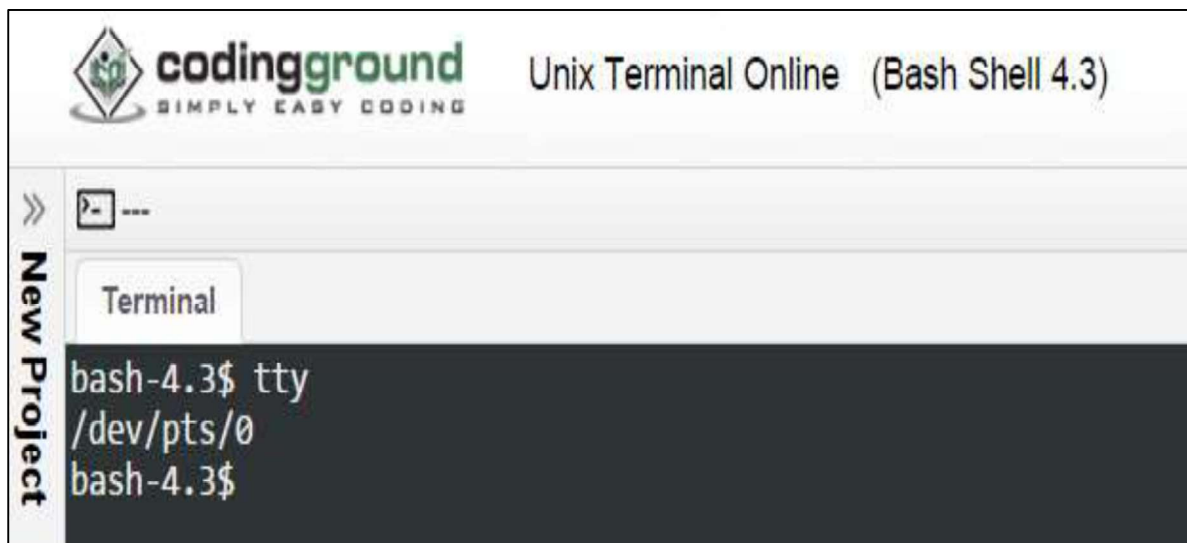
   July             August            September
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
      1  2  3  4  5          1  2          1  2  3  4  5  6
  6  7  8  9 10 11 12    3  4  5  6  7  8  9    7  8  9 10 11 12 13
13 14 15 16 17 18 19    10 11 12 13 14 15 16   14 15 16 17 18 19 20
20 21 22 23 24 25 26    17 18 19 20 21 22 23   21 22 23 24 25 26 27
27 28 29 30 31         24 25 26 27 28 29 30   28 29 30
                        31

   October           November          December
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
      1  2  3  4          1          1  2  3  4  5  6
  5  6  7  8  9 10 11    2  3  4  5  6  7  8    7  8  9 10 11 12 13
12 13 14 15 16 17 18    9 10 11 12 13 14 15   14 15 16 17 18 19 20
```

3. tty command

- The tty (teletype) command is used to print the current terminal name
- \$ tty

3.1 Displaying Terminal Name



The screenshot shows the codingground website header with the logo and text "codingground SIMPLY EASY CODING" and "Unix Terminal Online (Bash Shell 4.3)". Below the header is a terminal window with a "New Project" sidebar. The terminal displays the output of the 'tty' command: "bash-4.3\$ tty", "/dev/pts/0", and "bash-4.3\$".

```
bash-4.3$ tty
/dev/pts/0
bash-4.3$
```

RESULT

Thus the linux commands have been studied and executed successfully.