Chapter 7
Vim Editor and Basic Scripting

1. A **shell script** can be defined as series of commands written in a **plain text** file.
2. **Text editors** like nano, pico, vi or vim, ed are best for creating text file.
3. The **Vim** editor can be used from both a command line interface as well as standalone application in a graphical user interface.
4. The **tilde (~)** symbol indicates that the lines are yet to be used by the editor.
5. In command mode, the last line is known as **command line** and it displays the name of the file along with the information about the total number of lines and columns within the file.
6. In **insert** mode we can type text into our file or navigate within the file.
7. We can toggle between the command mode and the insert mode by pressing the **ESC** key.
8. The **last line** mode normally is used to perform operation like quitting the Vim session or saving a file.
9. To go to the last line mode by pressing the **colon (:)** key.
10. To execute any Linux command we need to type the **exclamation (!)** symbol before the command name ,in last line mode within the Vim Editor.
11. The **r** option allows us to insert data in the file or buffer.
12. A **shell script** allows us to execute more than one command at one in a better way.
13. **Shell script** can be defined as "Set of commands written in plain text file that performs a designated task in a controlled order.
14. The execute the script we need to use **sh or bash** command.
15. A **variable** when used in a shell script allows us to assign a value to it or accept its value form the user.
16. A variable name can consist of **alphabets, digits or an underscore (_)**.
17. No special character other than **underscore** allowed as part of variable name.
18. To assign value to variables this is defined in the shell script using the **read** command.
19. When we use read command, in case we press enter key without typing anything the script will assign **NULL** value to the variable and move to next command.
20. To solve the arithmetic operation in a shell script we use **expr** command.
21. The shell will treat the **(*)** symbol as a wildcard character.
22. **dd** keys are used to delete a line.

23. **$** symbol instructs a shell script to extract the value of a variable.
24. Vim editor also allows us to copy text form our file into temporary **buffers**.
25. Each buffer acts like temporary memory which is known as "**clipboard**".