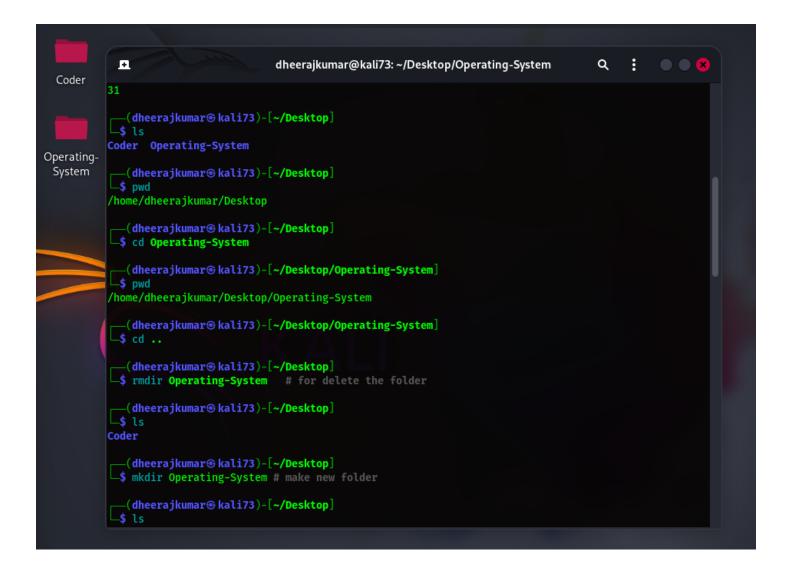
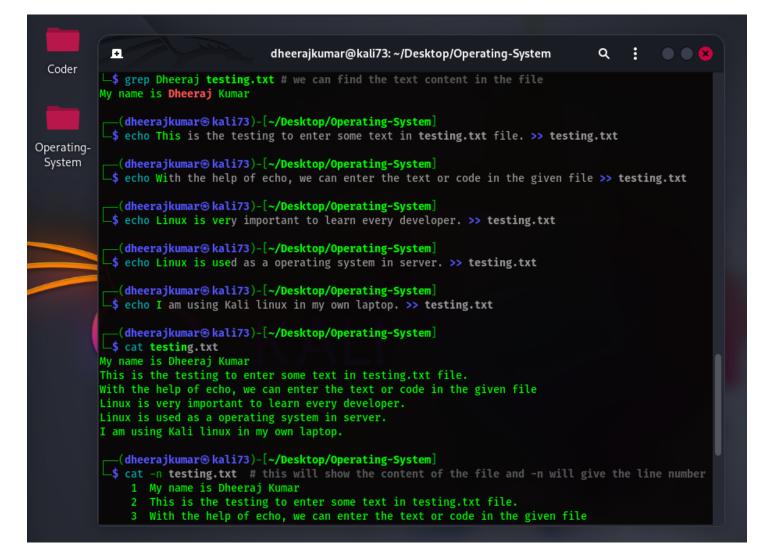
Operating System (MCA)

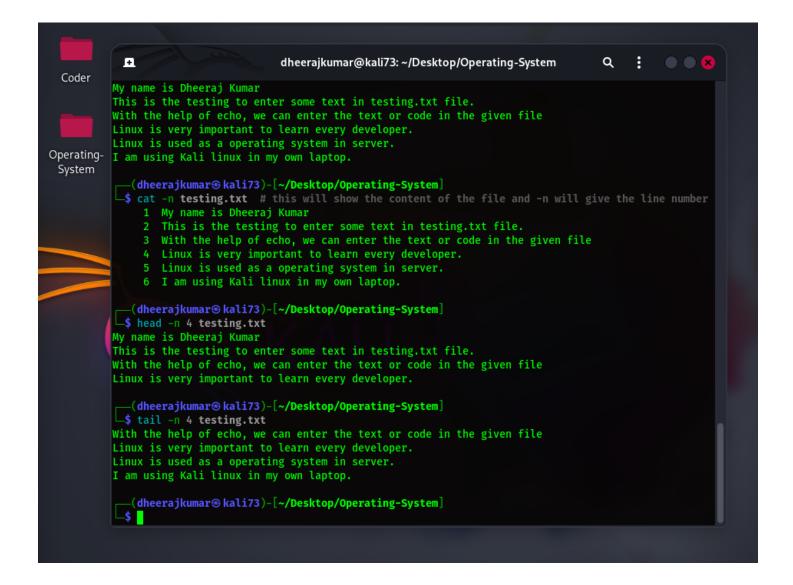
Date: - 11/08/2025

```
dheerajkumar@kali73: ~/Desktop/Operating-System
                                                                                           Q : 0 8
            \blacksquare
 Coder
            —(dheerajkumar⊛kali73)-[~]
          Desktop
                     Downloads packages.microsoft.gpg Public
                                                                    Videos
          Documents Music
                                Pictures
                                                         Templates
          __(dheerajkumar⊛kali73)-[~]
_$ cd Desktop
Operating-
 System
          __(dheerajkumar⊛kali73)-[~/Desktop]
$ ls
          Coder
            —(dheerajkumar⊛kali73)-[~/Desktop]
          -$ mkdir Operating-System
            —(dheerajkumar⊛kali73)-[~/Desktop]
          _$ date
          Monday 18 August 2025 01:17:02 PM IST
            —(dheerajkumar⊛kali73)-[~/Desktop]
              August 2025
          Su Mo Tu We Th Fr Sa
           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
          __(dheerajkumar⊛kali73)-[~/Desktop]
_$ ls
```



```
ш
                                    dheerajkumar@kali73: ~/Desktop/Operating-System
                                                                                        Q
                                                                                                 Coder
          └$ mkdir Operating-System # make new folder
          __(dheerajkumar⊛kali73)-[~/Desktop]
          Coder Operating-System
Operating-
 System
           —(dheerajkumar⊛kali73)-[~/Desktop]
          └$ cd Operating-System
           —(dheerajkumar⊛ kali73)-[~/Desktop/Operating-System]
          -$ touch testing.txt # create new txt file
           —(dheerajkumar⊛kali73)-[~/Desktop/Operating-System]
          _$ ls
          testing.txt
           —(dheerajkumar⊛kali73)-[~/Desktop/Operating-System]
          —$ du testing.txt # it will show disk usge
                 testing.txt
           —(dheerajkumar⊛kali73)-[~/Desktop/Operating-System]
          -$ echo My name is Dheeraj Kumar >> testing.txt
           —(dheerajkumar⊛kali73)-[~/Desktop/Operating-System]
          _$ du testing.txt # it will show disk usge
                 testing.txt
           —(dheerajkumar⊛ kali73)-[~/Desktop/Operating-System]
          s grep Dheeraj testing.txt # we can find the text content in the file
          My name is Dheeraj Kumar
          ——(dheerajkumar⊛ kali73)-[~/Desktop/Operating-System]
```





Commands

- o **Is: -** List all the file and folder inside the path.
- cd: Change directory.
- o **cd** .. : Change directory one step back
- o cd ~:- the command cd ~ is used to change the current working directory to the user's home directory. If you are currently in /usr/local/bin and you type cd ~, you will be returned to your home directory, which might be something like /home/your_username.
- o date: It will show the current date.
- cal: It will show the calendar.
- pwd: Present working directory.
- mkdir: Make directory.
- touch: Make file any of the type. For Example if you want to create testing.txt then write touch testing.txt
- o **rmdir:** Remove directory.
- o rm: Remove file
- du: The du command in Linux is a powerful utility used to estimate and display the disk space usage
 of files and directories. It stands for "disk usage".

 echo: - The echo command is used to display a line of text. You can redirect its output to a file using the > or >> operators.

echo "This text will overwrite the file." > filename.txt

o **cat:** - The cat command in Linux is a versatile and fundamental command-line utility used for handling files. Its name, "cat", is short for "concatenate", reflecting its original purpose of combining files.

Useful options

The cat command offers several options to customize its behavior:

- -n or --number: Numbers all output lines.
- -b or --number-nonblank: Numbers only non-empty output lines.
- -s or --squeeze-blank: Suppresses multiple adjacent blank lines, replacing them with a single blank line.
- -E or --show-ends: Displays a dollar sign (\$) at the end of each line, indicating line endings.
- -T or --show-tabs: Displays tab characters as ^I.
- -A or --show-all: Combines the functionality of -v, -E, and -T.
- -v or --show-nonprinting: Displays non-printing characters (except tabs and newlines) using ^ and M- notation
- head: The head command in Linux is a command-line utility used to display the first few lines of one or more text files. It's useful for quickly inspecting the contents of a large file or the output of a command.

head -n 5 filename.txt # Displays the first 5 lines head -c 20 filename.txt # Displays the first 20 bytes

Useful options

- -n <number>: Specifies the number of lines.
- -c <number>: Specifies the number of bytes.
- -q or --quiet: Suppresses the filename header for multiple files.
- -v or --verbose: Always displays the filename header.
- tail: The tail command in Linux is a command-line utility used to display the last part of a file or files.
 By default, it shows the last 10 lines of the input. It's essentially the inverse of the head command, which shows the beginning lines of a file.

tail filename.txt

This command outputs the last 10 lines of filename.txt to your terminal.

o tail -n 4 filename.txt: - This will show bottom 4 line of content.

