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Program: BS-Data Science

Operating System – Lab 06

Inspect File Content and Find Files

1. Create a directory FileContent in /home/[username]
 - **Command:** Mkdir FileContent

```
maimoona@DESKTOP-3E3NBI6  ×  +  ∨  
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ mkdir FileContent  
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$
```

2. Create two **file1** & **file2** files using cat command as:
 - a. Cat > file1
Start of file 1
This is first line of test file 1
This is second line of test file 1
End of file 1
 - b. Cat > file2
Start of file 2
This is first line of test file 2
This is second line of test file 2
End of file 2

```
maimoona@DESKTOP-3E3NBI6  ×  +  ∨  
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$  
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ cat > File1.txt  
Start of File 1  
The first line of File 1  
The second line of File1  
End of File 1  
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ cat > File2.txt  
Start of File 2  
The first line of File 2  
The second line of File 2  
End of File 2
```

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3. Write a command to view content of file1 and file2 using cat command

- **Command:** cat File1.txt
cat File2.txt

```
maimoona@DESKTOP-3E3NBI6 x + v
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ cat File1.txt
Start of File 1
The first line of File 1
The second line of File1
End of File 1
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ cat File2.txt
Start of File 2
The first line of File 2
The second line of File 2
End of File 2
```

4. Write a command to view content of both files using single cat command

- **Command:** cat File1.txt File2.txt

```
maimoona@DESKTOP-3E3NBI6 x + v
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ cat File1.txt File2.txt
Start of File 1
The first line of File 1
The second line of File1
End of File 1
Start of File 2
The first line of File 2
The second line of File 2
End of File 2
```

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5. Display content of file1 and file2 with line numbers

- **Command:** cat -n File1.txt
cat -n File2.txt

```
maimoona@DESKTOP-3E3NBI6 x + v
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ cat -n File1.txt
 1 Start of File 1
 2 The first line of File 1
 3 The second line of File1
 4 End of File 1
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ cat -n File2.txt
 1 Start of File 2
 2 The first line of File 2
 3 The second line of File 2
 4 End of File 2
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ |
```

6. Redirect standard output of a **file1** into a new file named as “**file3**” with ‘>’ (greater than) symbol. Careful, if file3 already exists, redirection will overwrite its content.

```
maimoona@DESKTOP-3E3NBI6 x + v
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ cat File1.txt > File3.txt
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ cat File3.txt
Start of File 1
The first line of File 1
The second line of File1
End of File 1
```

7. Append content of file3 using >> operator. cat as

- a. Echo “New Line added to file 3” >> file3

```
maimoona@DESKTOP-3E3NBI6 x + v
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ echo "New Line added to file 3" >> File3.txt
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ cat File3.txt
Start of File 1
The first line of File 1
The second line of File1
End of File 1
"New Line added to file 3"
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$
```

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8. Cd ~ [change directory to home]

```
maimoona@DESKTOP-3E3NBI6 x + v
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ cd ~
maimoona@DESKTOP-3E3NBI6:~$ |
```

9. Find path of file3 using find command?

```
maimoona@DESKTOP-3E3NBI6 x + v
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ find -name File3.txt -print
find: './AppData/Local/Packages/CanonicalGroupLimited.UbuntuonWindows_79rhkplfndgsc/LocalState/rootfs': Permission denied
find: './AppData/Local/Packages/CanonicalGroupLimited.UbuntuonWindows_79rhkplfndgsc/LocalState/temp/{3343252e-02dd-4ede-a795-840145a4bf1a}': Permission denied
find: './AppData/Local/Temp/WinSAT': Permission denied
./FileContent/File3.txt
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ |
```

10. Find location of following utilities using which command

- a. ls
- b. mv
- c. cp
- d. which

```
maimoona@DESKTOP-3E3NBI6 x + v
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ which ls
/usr/bin/ls
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ which mv
/usr/bin/mv
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ which cp
/usr/bin/cp
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$ which which
/usr/bin/which
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji$
```