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Program: BS-Data Science

Operating System – Lab 07

Sort files, Compress files, Create backup files

1. Create a directory FileContent in /home/[username]
2. Cd to FileContent

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

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

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4. Create a directory named as dirA

```
maimoona@DESKTOP-3E3NBI6 x + v
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$ mkdir dirA
```

5. Write a command to find regular Expression "first line of test" in both files

```
maimoona@DESKTOP-3E3NBI6 x + v
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$ grep -ic "first line of test" File1.txt File2.txt
File1.txt:1
File2.txt:1
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$ |
```

6. What is output of using following options with above command :

- a. -c
- b. -i
- c. -v
- d. -n

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

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7. Combine grep with pipe using | operator to search for all files with regular expression "First line of test"

```
maimoona@DESKTOP-3E3NBI6 x + v
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$ cat * | grep "first line of test"
cat: dirA: Is a directory
The first line of test File 1
The first line of test File 2
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$
```

8. Use sort and uniq command to sort file1 and file2 and store result in file3

```
maimoona@DESKTOP-3E3NBI6 x + v
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$ cat File1.txt File2.txt | sort | uniq > File3.txt
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$ cat File3.txt
End of File 1
End of File 2
Start of File 2
Start of file 1
The first line of test File 1
The first line of test File 2
The second line of test File 1
The second line of test File 2
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$ |
```

9. Create a backup for file3 using tar command

```
maimoona@DESKTOP-3E3NBI6 x + v
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$ tar -cvf mytar1 File3.txt
File3.txt
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$ |
```

10. What is output of using following options with above command :

- a. -c
- b. -v
- c. -f

```
maimoona@DESKTOP-3E3NBI6 x + v
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$ tar -cvf mytar1 File3.txt
File3.txt
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$ |
```

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d. -t

```
maimoona@DESKTOP-3E3NBI6 x + v
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$ tar -tvf TarFile File3.txt
-rwxrwxrwx maimoona/maimoona 182 2021-03-27 17:11 File3.txt
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$ |
```

e. -x

```
maimoona@DESKTOP-3E3NBI6 x + v
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$ tar -xvf TarFile File3.txt
File3.txt
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$
```

11. Write a command to compress file2 using compress and file1 using gzip command

```
maimoona@DESKTOP-3E3NBI6 x + v
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$ gzip File1.txt File2.txt
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$
```

12. Write a command to de compress file2 and file1

```
maimoona@DESKTOP-3E3NBI6 x + v
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$ gzip -d File1.txt File2.txt
maimoona@DESKTOP-3E3NBI6:/mnt/c/Users/Maimoona Khilji/FileContent$
```