Manipulating Data on Linux

- Viewing and Manipulating the data

  - awk

```
1)    Amit      Physics    80
2)    Rahul     Maths      90
3)    Shyam     Biology    87
4)    Kedar     English    85
5)    Hari      History    89
```

```
[jerry]$ awk '/a/ {print $0}' marks.txt
```

On executing the above code, you get the following result:

```
2)    Rahul     Maths      90
3)    Shyam     Biology    87
4)    Kedar     English    85
5)    Hari      History    89
```

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```

```
[jerry]$ awk '{print $3 "\t" $4}' marks.txt
```

On executing the above code, you get the following result:

```
Physics    80
Maths      90
Biology    87
English    85
History    89
```

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```
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```

```
[jerry]$ awk '/a/{++cnt} END {print "Count = ", cnt}' marks.txt
```

On executing the above code, you get the following result:

```
Count = 4
```

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Remove duplicate lines using awk

```
$ awk '!($0 in array) { array[$0]; print }' temp
```

Print all lines from /etc/passwd that has the same uid and gid

```
$awk -F ':' '$3==$4' passwd.txt
```

Print only specific field from a file.

```
$ awk '{print $2,$5;}' employee.txt
```

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  - sort

Sort a file in ascending order

```
$ sort names.txt
```

Sort a file in descending order

```
$ sort -r names.txt
```

Sort passwd file by 3rd field.

```
$ sort -t: -k 3n /etc/passwd | more
```