

```
srinithyee@LAPTOP-NJIC7B3C:~$ cat >sample.txt
```

```
This is a file with a set of data to enter.
```

```
SSN is an engineering college
```

```
It has several departments and I am pursuing Computer Science and Engineering
```

```
2018-2022 is the batch I belong to
```

```
name      age      gender
```

```
srinithyee    18      female
```

```
ajay      12      male
```

```
1.  srinithyee@LAPTOP-NJIC7B3C:~$ awk 'END{print NR}' sample.txt
```

```
7
```

```
2.  srinithyee@LAPTOP-NJIC7B3C:~$ awk '{total_fields += NF}; END {print total_fields}' sample.txt
```

```
11
```

```
5
```

```
12
```

```
7
```

```
3
```

```
3
```

```
3
```

```
3.  srinithyee@LAPTOP-NJIC7B3C:~$ awk '{print $NR}' sample.txt | tail -1  
UNIX
```

```
4.  srinithyee@LAPTOP-NJIC7B3C:~$ awk '{print $NF}' sample.txt
```

```
enter.
```

```
college
```

```
Engineering
```

```
to
```

```
gender
```

```
female
```

```
male
```

```
5.  srinithyee@LAPTOP-NJIC7B3C:~$ awk 'NF>2' sample.txt
```

```
This is a file with a set of data to enter.
```

```
SSN is an engineering college
```

```
It has several departments and I am pursuing Computer Science and Engineering
```

```
2018-2022 is the batch I belong to
```

```
name      age      gender
```

```
srinithyee    18      female
```

```
ajay      12      male
```

```
6.  srinithyee@LAPTOP-NJIC7B3C:~$ awk /UNIX/ {print $0} sample.txt
```

```
This line contains UNIX
```

```
I am learning UNIX
```

```
7.  srinithyee@LAPTOP-NJIC7B3C:~$ awk '{print $4 " " "$3" "$2" "$1" "}'  
sample.txt
```

```
file a is This
```

```
engineering an is SSN
```

```
departments several has It
```

```
batch the is 2018-2022
gender age name
female 18 srinithyee
male 12 ajay
```

```
8. srinithyee@LAPTOP-NJIC7B3C:~$ awk 'NR>=2&&NR<=4' sample.txt
SSN is an engineering college
It has several departments and I am pursuing Computer Scienece and
Engineering
2018-2022 is the batch I belong to
```

9.

```
1.srinithyee@LAPTOP-NJIC7B3C:~$ awk '$4==0' workers.txt
Dan Black 12.00 0
```

```
2.srinithyee@LAPTOP-NJIC7B3C:~$ awk '$3>=15' workers.txt
First Name Last Name Rate Hours
George White 18.00 23
Mark Red 18.10 20
Susan Green 18.00 40
Nora Brown 17.20 46
Bob Gold 15.00 45
```

```
3.srinithyee@LAPTOP-NJIC7B3C:~$ awk '/Mary/' workers.txt
Mary Blue 10.89 25
```

```
4.srinithyee@LAPTOP-NJIC7B3C:~$ awk '$3>=1&&$3<=18' workers.txt
George White 18.00 23
Mary Blue 10.89 25
Dan Black 12.00 0
Susan Green 18.00 40
Bruce Purple 12.20 52
Bob Gold 15.00 45
Steve Silver 14.67 25
```

10.

```
i.srinithyee@LAPTOP-NJIC7B3C:~$ cat >totals.awk
BEGIN{
    runningtotal=0
}
{
    runningtotal=runningtotal+$2
    print "The total is " runningtotal
}
srinithyee@LAPTOP-NJIC7B3C:~$ awk -f totals.awk sales.txt
The total is 601
```

```
ii.srinithyee@LAPTOP-NJIC7B3C:~$ cat >st.awk
BEGIN{
    a[$1]=$2
}
{for i in $2
{
    if a[$1]==1
```

```

{
s[$1]+=i
}
}
}
END{
for i in $1
{
print{i"\t"s[i];
}
}
}

```

```

srinithyee@LAPTOP-NJIC7B3C:~$ awk -f st.awk sales.txt

```

```

January      32
February     64
March        43
June        149
May          97
July         23
August       58
October     101
November     34

```

```

iii.srinithyee@LAPTOP-NJIC7B3C:~$ awk '$2==0' sales.txt

```