



SHELL PROGRAMMING

ASSIGNMENT -5

SUBMITTED BY:

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SUBMITTED TO:

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1. Write an awk command to print the lines and line number in the given input file .

```
root@Ayush500086400:~/Desktop/Exp5# cat file.txt
name:grade:marks
xxx:A:90
yyy:D:60
zzz:B:80
ddd:F:40
root@Ayush500086400:~/Desktop/Exp5#
```

```
root@Ayush500086400:~/Desktop/Exp5# awk '{print NR,$0}' file.txt
1 name:grade:marks
2 xxx:A:90
3 yyy:D:60
4 zzz:B:80
5 ddd:F:40
```

2. Write an awk command to print first field and second field only if third field value is ≥ 50 in the given input file. (input field separator is ":" and output field separator is ",")

```
root@Ayush500086400:~/Desktop/Exp5# cat file.txt
name:grade:marks
xxx:A:90
yyy:D:60
zzz:B:80
ddd:F:40
root@Ayush500086400:~/Desktop/Exp5# awk -F ":" '{OFS=","; if($3>=50) print $1,$2;}' file.txt
name,grade
xxx,A
yyy,D
zzz,B
```

3. Consider the marks.txt is a file that contains one record per line(comma separate fields) of the student data in the form of studentid, student name, Telugu marks, English marks, Maths Marks, Science marks, Social Marks. Write an awk script to generate result for every students in the form of studentid, studentname, Total Marks and result. Result is PASS if marks is ≥ 30 in TELUGU and English, and if marks ≥ 40 in other subjects. Result is fail otherwise.

```

root@Ayush500086400:~/Desktop/Exp5# cat awk1.txt
BEGIN{
    print "Studentid", "Student Name", "Total marks", "Result"
}
{
    if(NR!=1){
        total=$3+$4+$5+$6+$7
        if($3>=30 && $4>=30){
            if($5>=40 && $6>=40 && $7>=40){
                result="Pass"
            }
        }
        else{
            result="Fail"
        }
        print $1,$2, total,result
    }
}

```

```

root@Ayush500086400:~/Desktop/Exp5# cat Marks.txt
StudentID, StudentName, TeluguMarks, EnglishMarks, MathsMarks, ScienceMark
s, SocialMarks
12345, Rohan, 45, 56, 76, 54, 97
22345, Sohan, 55, 65, 67, 44, 87
32345, Mohan, 15, 99, 64, 43, 85
42345, Radha, 75, 95, 77, 89, 86
52345, Seeta, 55, 83, 72, 58, 88
62345, Madhav, 74, 56, 76, 54, 90
72345, Umakant, 65, 56, 76, 54, 91
82345, Shekhar, 55, 56, 76, 54, 92
92345, Rudransh, 85, 56, 66, 64, 87
13345, Shivansh, 95, 86, 89, 92, 96
root@Ayush500086400:~/Desktop/Exp5# awk -F "," -f awk1.txt Marks.txt
Studentid Student Name Total marks Result
12345 Rohan Pass
22345 Sohan Pass
32345 Mohan Fail
42345 Radha Pass
52345 Seeta Pass
62345 Madhav Pass
72345 Umakant Pass
82345 Shekhar Pass
92345 Rudransh Pass
13345 Shivansh Pass
root@Ayush500086400:~/Desktop/Exp5# █

```