

Ex. No.: 4b)

Date: 15/2/25

RESULTS OF EXAMINATION

Aim:

To print the pass/fail status of a student in a class.

Algorithm:

1. Read the data from file
2. Get a data from each column
3. Compare the all subject marks column
 - a. If marks less than 45 then print Fail
 - b. else print Pass

Program Code:

```
//marks.awk
BEGIN {
    print "Name", "\t", "SUB-1", "\t", "SUB-2", "\t", "SUB-3", "\t",
        "SUB-4", "\t", "SUB-5", "\t", "SUB-6", "\t", "STATUS"
    print "_____ \n"
}
# BODY
if ($2 < 45 || $3 < 45 || $4 < 45 || $5 < 45 || $6 < 45 || $7 < 45)
{
    print $1, "\t", $2, "\t", $3, "\t", $4, "\t", $5, "\t",
        $6, "\t", $7, "\t", "FAIL"
}
else
{
    print $1, "\t", $2, "\t", $3, "\t", $4, "\t", $5, "\t",
        $6, "\t", $7, "\t", "PASS"
}
}
END {
    print "_____ \n"
}
```

Input:

//marks.dat

//Col1 - name, Col 2 to Col7 - marks in various subjects

BEN 40 55 66 77 55 77

TOM 60 67 84 92 90 60

RAM 90 95 84 87 56 70

JIM 60 70 65 78 90 87

SR1 50 60 80 20 75 30

AAKASH 55 76 88 49 60 99

THARUN 88 87 86 85 80 50

LEE 99 70 60 29 60 55

Output:

Run the program using the below command

[root@localhost student]# gawk -f marks.awk marks.dat

NAME SUB-1 SUB-2 SUB-3 SUB-4 SUB-5 SUB-6 STATUS

BEN 40 55 66 77 55 77 FAIL TOM 60 67 84 92 90 60 PASS RAM 90 95 84
87 56 70 PASS JIM 60 70 65 78 90 87 PASS

NAME	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5	SUB-6	STATUS
SR1	50	60	80	20	75	30	FAIL
AAKASH	55	76	88	49	60	99	PASS
THARUN	88	87	86	85	80	50	PASS
LEE	99	70	60	29	60	55	PASS

Result:

Thus the awk script to print the pass/fail status of a student in a class has been successfully executed.