Ex. No.: 4b)

Date: 14/2/25

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

RAM 40 50 60 70 80 90 FAIL
TEJU 20 70 90 99 25 100 FAIL
SURYA 37 67 89 91 32 50 FAIL
ABI 90 99 91 98 98 45 PASS

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

RAM 40 50 60 70 80 90 FAIL
TEJU 20 70 90 99 25 100 FAIL
SURYA 37 67 89 91 32 50 FAIL
ABI 90 99 91 98 98 45 PASS

Result: Hence the program to print pass/fail status of a student has been executed.