Ex. No.: 4b)

Date: 13/2/25

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 || $<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

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

Result:

A awk script program has been executed to get the results of examination