Ex. No.: 4b)

Date: 18.2.25

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" }
{ 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:

ram	40	55	66	77	66	55
raj	60	67	82	92	70	85
tim	90	87	97	55	99	60
jake	70	79	66	69	80	82

Output:

Name	sub1	sub2	sub3	sub4	sub5	sub6	status
ram	40	55	66	77	66	55	Fail
raj	60	67	82	92	70	85	pass
tim	90	87	97	55	99	60	pass
jake	70	79	66	69	80	82	pass

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:

The program on AWK script to print the pass or fail of student in class