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" }

{
  if ($2 < 45 || $3 < 45 || $4 < 45 || $5 < 45 ||
                          $6 < 45 || $7 < 45)
  {
    Print $1, "\t", $2, "\t", $3, "\t", $4, $"\t",
                          $7, "\t", "FAIL"
  }
else {
    Print $1, "$t", $2, "\t", $3, "\t", $4, "\t", $5
    "\t", $6, "\t", $7, "\t", "Pass".
} }
```

Marks dat

Eve	39	55	66	77	55	77
Taylor	60	67	90	88	65	43
Joe	55	76	86	76	56	65
John	35	54	65	35	43	54
Pathi	98	90	87	99	89	75

OUTPUT

NAME	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5	SUB-6	
Eve	39	55	66	77	55	77	Fail
Taylor	60	67	90	88	65	43	Fail
Joe	55	76	86	76	56	65	Pass
Joh	35	54	65	35	43	54	Pass
Pathi	98	90	87	99	89	75	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 program is executed using AWK Script to find if a student has passed or failed.