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 :

varsha	90	98	97	96	96	94
tanisha	87	86	85	84	83	82
Valluru	76	75	74	73	76	71
Suetha	100	100	100	100	100	100
Galy	2	3	4	5	6	7

output :

NAME	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5	SUB-6	STATUS
varsha	90	98	97	96	96	94	PASS
tanisha	87	86	85	84	83	82	PASS
Valluru	76	75	74	73	76	71	PASS
Suetha	100	100	100	100	100	100	PASS
Galy	20	32	43	54	16	17	FAIL

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 awk script to find if a student has failed or passed has been executed sucessfully.