Ex. No.: 4b)

Date: 14/02/25

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:

//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

SAMPLE INPUT

THARUN	55	40	60	71	85	92
PRAVEEN	60	75	85	90	82	25
HARI	70	80	90	20	60	40
VARUN	80	85	85	60	75	85

SAMPLE OUTPUT

NAME	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5	SUB-6	STATUS
THARUN	85	40	60	71	85	92	FAIL
PRAVEEN	60	75	85	90	82	25	FAIL
HARI	70	80	90	20	60	40	FAIL
VARUN	80	85	85	60	75	85	PASS

Result:

Thus the awk script for the result of examination have been executed.