Ex. No.: 4b)

Date:

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:

```
BEGIN {
print "NAME", "\t", "SUB-1", "\t", "SUB-2", "\t", "SUB-3", "\t", "SUB-4", "\t", "SUB-5", "\t", "SUB-6", "\t", "STATUS"
print "_____"
}
{
if ($2<45 || $3<45 || $3<45 || $4<45 || $5<45 || $6<45 || $7<45)
{
print $1, "\t", $2, "\t", $3, "\t", $4, "\t", $5, "\t", $6, "\t", "FAIL"
}
else
{
print $1, "\t", $2, "\t", $3, "\t", $4, "\t", $5, "\t", $6, "\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

```
[student@localhost ~]$ vi marks.dat
[student@localhost ~]$ vi marks.awk
[student@localhost ~]$ 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       FAIL
TOM      60      67       84       92       90       PASS
RAM      90      95       84       87       56       PASS
JIM      60      70       65       78       90       PASS


[student@localhost ~]$
```

Result:
Program executed successfully and output is verified.