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:

//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
```

//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"  }
```

Output:

```
[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
--------------------------------------------------
```