

Ex. No.: 4b)

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
{
    pass = 1
    for (i = 2; i <= NF; i++) {
        if ($i < 45) {
            pass = 0
            break
        }
    }
    if (pass == 1) {
        print $1 ": Pass"
    } else {
        print $1 ": 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:

Program to print the pass/fail status of a student in a class is executed successfully.