

Ex No: 4 (b) RESULTS OF EXAMINATION**Date: 08.02.2025****Aim:**

To print the pass/fail status of a student in a class based on subject marks.

Algorithm:

1. Read student data from the input file marks.dat.
2. For each record, retrieve the name and six subject marks.
3. Check each mark:
 - If any subject mark is less than 45, then the student is marked as **FAIL**.
 - Otherwise, the student is marked as **PASS**.
4. Print the student name, all marks, and the pass/fail status.

Program Code:**marks.dat – Input File**

```
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 – AWK Script

```
BEGIN {
    print "NAME SUB-1 SUB-2 SUB-3 SUB-4 SUB-5 SUB-6 STATUS"
    print "_" }
{
    name = $1
    status = "PASS"
    for (i = 2; i <= 7; i++) {
```

```
    if ($i < 45)
        status = "FAIL"
    }
    printf "%s %3d %5d %5d %5d %5d %5d %6s\n", name, $2, $3, $4, $5, $6, $7,
status }
```

Sample Input and 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
```

Result:

The AWK script was executed successfully. The script correctly identified and displayed the pass/fail status of each student based on their subject marks.