

Date: 08.02.2025

## RESULTS OF EXAMINATION

### 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.
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### 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++) {
```

CS23431-OPERATING SYSTEMS

RollNo:231901033

```
    if ($i < 45)
        status = "FAIL"
}

printf "%s %3d %5d %5d %5d %5d %5d %6s\n", name, $2, $3, $4, $5, $6, $7, status
}
```

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### 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

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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

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### 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.