

RESULTS OF EXAMINATION

Aim:

To print the pass/fail status of a student in a class.

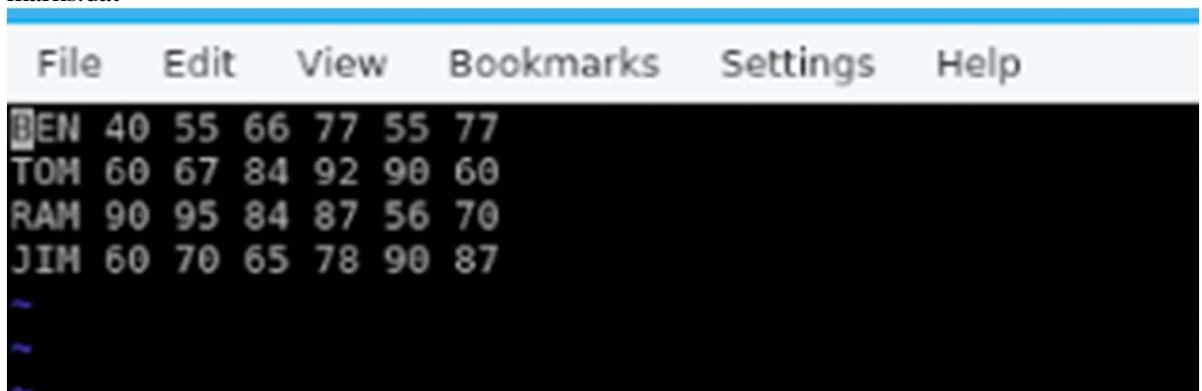
Algorithm:

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. If marks less than 45 then print Fail

else print Pass

Program Code:

marks.dat



The screenshot shows a text editor window with a menu bar (File, Edit, View, Bookmarks, Settings, Help) and a dark background. The text content is as follows:

NAME	SUB1	SUB2	SUB3	SUB4	SUB5	SUB6
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

```
File Edit View Bookmarks Settings Help
BEGIN {
print "NAME", "\t", "SUB-1", "\t", "SUB-2", "\t", "SUB-3", "\t", "SUB-4", "\t", "SUB-5"
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 "
"}
~
```

//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

```
File Edit View Bookmarks Settings Help
[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:

The program to print the pass/fail status of a student in a class was executed and got the output.