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

```awk
BEGIN {
print "Name", "\t", "SUB-1", "\t", SUB, "SUB-2", "\t", "SUB-3", "\t" SUB-3",
"SUB-4", "\t", "SUB-5", "\t" "SUB-6", "\t", "STATUS"
print "_____ \n" }
{ # BOBY
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" }
```

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

AJAY	50	60	80	20	75	30
SHAM	56	76	88	49	60	99
RAJ	88	87	86	85	80	50
SWEE	99	70	60	29	60	55

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

NAME	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5	SUB-6	STATUS
AJAY	50	60	80	20	75	30	Fail
SHAM	55	76	88	49	60	99	Pass
RAJ	88	87	86	85	80	50	Pass
SWEE	99	70	60	29	60	55	Pass

Result:

Thus the awk sh script to print the pass/fail status of a student in a class has been successfully executed.

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