

Ex. No.: 4b)

Date: 13/2/25

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

BEGIN {

```
print "NAME", "H", "SUB-1", "\t", "SUB-2", "H",  
"SUB-3", "H", "SUB-4", "\t", "SUB-5", "\t",  
"SUB-6", "\t", "STATUS"  
print "_____ In"
```

}

```
if ($2 < 45 || $3 < 45 || $4 < 45 || $5 < 45 ||  
$6 < 45 || $7 < 45)
```

{

```
print $1, "H", $2, "\t", $3, "H", $4, "\t",  
$7, "H", "FAIL"
```

}

30

else {

```
print $1, "\t", $2, "H", $3, "\t", $4, "\t", $5,  
"\t", $6, "\t", $7, "\t", "PASS"
```

}

}

marks.dat

Eve	39	55	66	77	55	77
Taylor	60	67	90	88	65	43
Joe	55	76	86	76	56	65
John	35	54	65	35	43	54
Patthi	98	90	87	99	89	75

OUTPUT :

NAME	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5	SUB-6	STAT
Eve	39	55	66	77	55	77	FAIL
Taylor	60	67	90	88	65	43	FAIL
Joe	55	76	86	76	56	65	PASS
John	35	54	65	35	43	54	PASS
Patthi	98	90	87	99	89	75	PASS

END {
Print " _____ ln" }

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
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Result:

A program is executed using AWK script to find if a student has passed or failed.