

Ex. No.: 4b)
Date: 13/02/25

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RESULTS OF EXAMINATION

Aim:

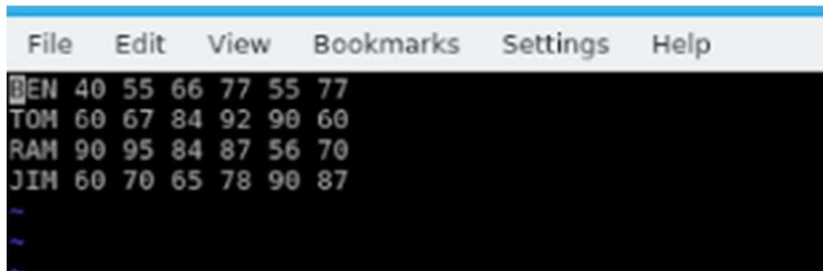
To print the pass/fail status of a student in a class.

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

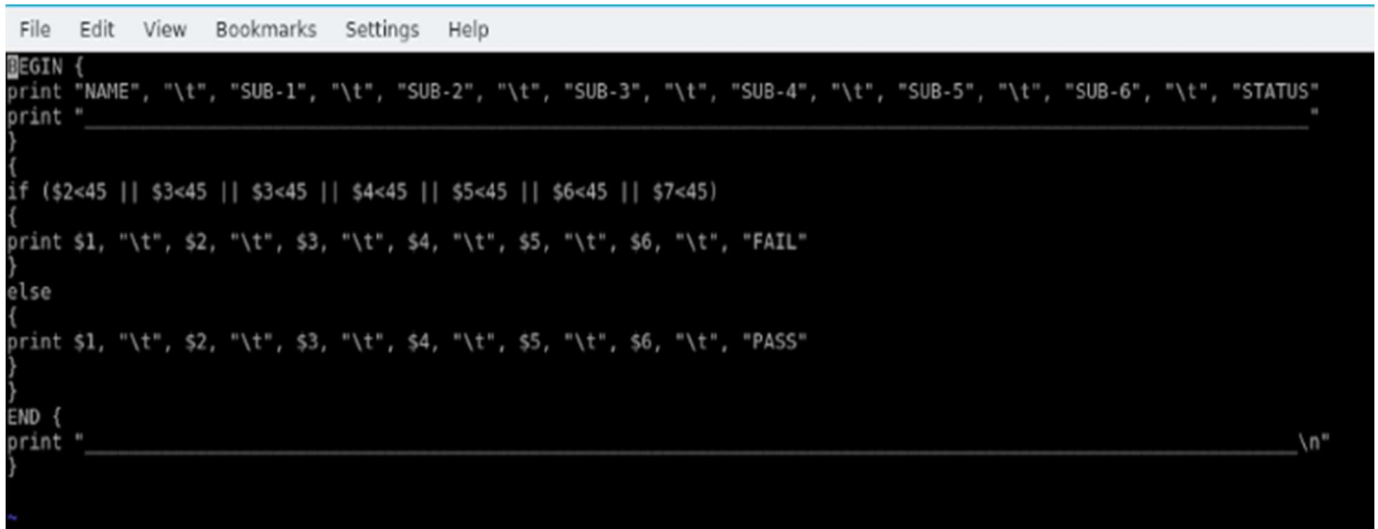
Pass Program Code:

marks.dat



```
File Edit View Bookmarks Settings Help
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", "\t", "SUB-6", "\t", "STATUS"
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 "_____ \n"
}
```

Input:

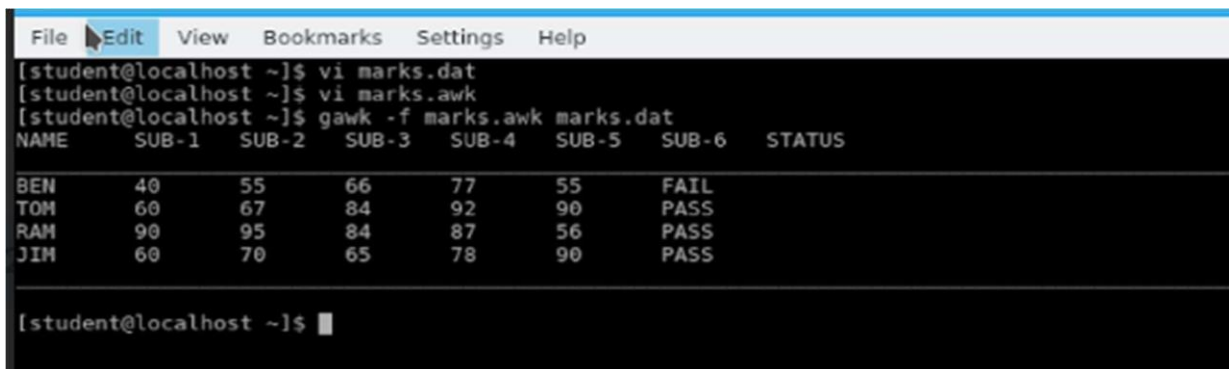
```
//marks.dat
//Col1- name, Col 2 to Col7 – marks in various subjects
BEN 40 55 66 77 55 77
TOM 60 67 84 92 90 60
RAM 90 95 84 87 56 70
JIM 60 70 65 78 90 87
```

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    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

[student@localhost ~]$
```

Result:

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