Sample Input :

// marks.dat

// col1 - name, col 2 to col7 - marks in various subjects

CLARA	80	85	89	99	92	97
SMITH	90	95	96	97	93	99
JOHN	86	88	89	93	94	98
ALICE	75	79	88	97	99	92

Sample Output :

NAME	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5	SUB-6	STATUS
CLARA	80	85	89	99	92	97	PASS
SMITH	90	95	96	97	93	99	PASS
JOHN	86	88	89	93	94	98	PASS
ALICE	75	79	88	97	99	92	PASS

Ex. No.: 4b)

Date: 15|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", "\t", "SUB-1", "\t", "SUB-2", "\t", "SUB-3", "\t", "SUB-4",
"\t", "SUB-5", "\t", "SUB-6", "\t", "STATUS"
print "_____30_____\n"}
{#BODY
 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 "_____30_____\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

Result:

Thus the AWK Script to print the examination result is been programed and executed successfully.