Ex. No.: 3 b

Date: 09-03-2024

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"_____\n"
}
{
    #BODY
    if($2<45||$3<45||$4<45||$5<45||$6<45||$7<45)
        status = "FAIL"
    else
        status ="PASS"
    print $1,"\t",$2,"\t",$3,"\t",$4,"\t",$5,"\t",$6,"\t",$7,"\t",status
}
END{
    print"_____\n"
```

}

// marks.dat

Ben 40 55 66 77 55 77

Tom 60 70 50 70 80 90

Jim 90 90 30 60 50 60

Tim 60 90 90 30 90 90

OUTPUT:

```
┌──(shanthosh㉿kali)-[~/os_lab]
└─$ 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       70       50       70       80       90       PASS
Jim       90       90       30       60       50       60       FAIL
Tim       60       90       90       30       90       90       FAIL
_____________________________________________________________________
```

Result:

Hence the awk script to identify the students who have failed and passed has been successfully completed and executed.