Text processing using Awk script

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a). Employee average pay

Code:

```
BEGIN {
    total_pay = 0
    count = 0
}
$2 > 6000 && $3 > 4 {
    name = $1
    salary_per_day = $2
    days_worked = $3
    total_salary = salary_per_day * days_worked
    print name,    total_salary
    total_pay += total_salary
    count++
}
END {
    if (count > 0) {
        average_pay = total_pay / count
        print "Total number of employees:", count
        print "Total pay of all employees:", total_pay
        print "Average pay of the employees:", average_pay
    } else {
        print "No employees satisfy the criteria."
    }
}
```

```
Joe 8000 5
Ram 6000 5
Tim 5000 6
Ben 7000 7
Amy 6500 6
```

Output:

```
[cse80@localhost ~]$ vi emp.dat
[cse80@localhost ~]$ vi emp.awk
[cse80@localhost ~]$ gawk -f emp.awk emp.dat
Joe 40000
Ben 49000
Amy 39000
Total number of employees: 3
Total pay of all employees: 128000
Average pay of the employees: 42666.7
```

b). Results of an examination

Code:

```
BEGIN {
    print "NAME", "SUB-1", "SUB-2", "SUB-3", "SUB-4", "SUB-5", "SUB-6", "STATUS"
    print "_____"
}

{
    name = $1
    fail = 0
    for (i = 2; i <= 7; i++) {
        if ($i < 45) {
            fail = 1
        }
    }

    status = (fail == 1) ? "FAIL" : "PASS"
    printf "%-5s %-6s %-6s %-6s %-6s %-6s %-6s %-6s\n", name, $2, $3, $4, $5, $6, $7, status
}

END {
    print "_____"
}
```

```
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:

```
[cse80@localhost ~]$ vi marks.dat
[cse80@localhost ~]$ vi marks.awk
[cse80@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
                                          FAIL
_____
```