4a) To find out the average pay of all employees whose salary is more than 6000 ad no. of days worked is more than 4.

Program code:

```
BEGIN {
    total = 0;
    count = 0;
}

$2 > 6000 && $3 > 4 {
    total += $2;
    count++;
}

END {
    if (count > 0)
        print "Average pay of selected employees: " total / count;
    else
        print "No employee met the criteria.";
}
```

Input:

```
John 6500 5
Alice 7200 6
Bob 5800 7
David 8000 4
Eve 9000 10
```

Output:

```
haresh@haresh:~$ gawk -f emp.awk emp.dat
Average pay of selected employees: 7566.67
```

4b)

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

Program code:

```
BEGIN {
    print "NAME SUB-1 SUB-2 SUB-3 SUB-4 SUB-5 SUB-6 STATUS"
    print "______"

{
    status = "PASS"
    for (i = 2; i <= 7; i++) {
        if ($i < 45) {
            status = "FAIL"
            break
        }
    }
    print $1, $2, $3, $4, $5, $6, $7, status
}</pre>
```

Output