Exp – 4a):

AIM: To find out the average pay of all employees whose salary is more than 6000 and no. of days worked is more than 4.

PROGRAM:

```
BEGIN {
        FS = ","
        NR == 1 { next }
        tot_sal=0
        count=0
}
{
        name=$1
        sal_pd=$2
        days=$3
        tot_sal_emp=sal_pd * days
        if (tot_sal_emp > 6000 && days > 4){
                tot_sal += tot_sal_emp
                count++
        }
}

END {
        if (count > 0) {
                avg=tot_sal / count
                print avg
                print count
        } else {
                print "condition not satisfied"
        }
}
```

```
Employee Name,Salary Per Day,Days Worked
John Doe,10000,25
Jane Smith,15000,30
Alice Johnson,120,3
Bob Brown,9000,4
```

OUTPUT:

```
jagadesh@LAPTOP-33VRBQ67:/mnt/c/Users/Parthiban/OS Exps/shell$ gawk -f emp.awk emp.dat
John Doe 250000
Jane Smith 450000
no of employees are= 2
total pay= 700000
average pay= 350000.0
```

Exp – 4b):

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

PROGRAM:

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

{
    name = $1
    status = "PASS"

    # Loop through subjects (fields 2 to 7)
    for (i = 2; i <= 7; i++) {
        if ($i < 45) {
            status = "FAIL"
        }
    }

    # Print the full line followed by status
    printf "%s %s %s %s %s %s %s %s\n", $1, $2, $3, $4, $5, $6, $7, status
}

END {
    print "-------------------------------------------------------------"
}
```

OUTPUT:

```
jagadesh@LAPTOP-33VRBQ67:/mnt/c/Users/Parthiban/OS Exps/shell$ 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
-------------------------------------------------------------
```