Ex. no: 4a)

Name : Ashish P Shaji

Roll NO : 230701041

EMPLOYEE AVERAGE PAY

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.

Algorithm:

1. Create a flat file emp.dat for employees with their name, salary per day and number of days worked and save it.
2. Create an awk script emp.awk
3. For each employee record do

a. If Salary is greater than 6000 and number of days worked is more than 4, then print name and salary earned

b. Compute total pay of employee

4. Print the total number of employees satisfying the criteria and their average pay.

Program Code:

```
joe 8000 5
ram 6000 5
tim 5000 6
ben 7000 7
amy 6500 6
~
```

```
BEGIN {
  cnt = 0
  pay = 0
  print "Employee Details"
}

{
  if ($2 > 6000 && $3 > 4) {
    pay = pay + ($2 * $3)
    print $1, $2 * $3
    cnt = cnt + 1
  }
}

END {
    print "total pay", pay
    print "no of employees", cnt
    print "average pay ", pay/cnt
}

~
~
~
~
~
~
~
```

OUTPUT:

```
EMPLOYEES DETAILS
joe 40000
ben 49000
amy 39000
no of employees are = 3
total pay = 128000
average pay = 42666.7
```

Ex. no: 4b)

Name : Ashish P Shaji

Roll NO : 230701041

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:

```
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
```

```
BEGIN{
  print "name sub-1 sub-2 sub-3 sub-4 sub-5 status"
}
{
  if ($2>40 && $3>40 && $4>40 && $5>40 && $6>40){
    print $1, $2, $3, $4, $5, $6, "Pass"
}
  else{
    print $1, $2, $3, $4, $5, $6, "Fail"
}
}
END{
}
```

OUTPUT :

```
name sub-1 sub-2 sub-3 sub-4 sub-5 status
ben 40 55 66 77 55 Fail
tom 60 67 84 92 90 Pass
ram 90 95 84 87 56 Pass
jim 60 70 65 78 90 Pass
```