Ex. No: 4a

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 the Salary is greater than 6000 and number of days worked is more than 4, then print the 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:

```
#!/usr/bin/awk -f


BEGIN {
count = 0;
total_pay = 0;
}

{
salary = $2;
days = $3;

if (salary > 6000 && days > 4) {
pay = salary * days;
print "Employee:", $1, "Total Pay:", pay;
total_pay += pay;
count++;
}
}

END {
if (count > 0) {
avg_pay = total_pay / count;
print "\nTotal Employees:", count;
print "Total Pay:", total_pay;
print "Average Pay:", avg_pay;
} else {
print "No employees satisfy the criteria.";
```

```
}
}
```

INPUT:

John 7000 10
Alice 5000 12
Bob 8000 9
Mike 6500 6

OUTPUT:

```
$ gawk -f emp.awk emp.dat
Employee: John Total Pay: 70000
Employee: Bob Total Pay: 72000
Employee: Mike Total Pay: 39000

Total Employees: 3
Total Pay: 181000
Average Pay: 60333.3
```

RESULT:

Thus, to find the average salary whose salary is above 6000 is successfully implemented.

Ex. No: 4b

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:

```
//marks.awk
#!/usr/bin/gawk -f
{
name = $1;
pass = 1;
for (i = 2; i <= NF; i++) {
if ($i < 45) {
pass = 0;
break;}
}
if(pass) {
print name, "Pass";
} else {
print name, "Fail";}
}
```

INPUT:

//marks.dat

```
John 50 60 45 70 80
Alice 40 55 30 65 75
Bob  80 85 90 78 88
Mike 35 40 50 60 45
```

OUTPUT:

```
$ awk -f emp.awk emp.dat
awk -f pass_fail.awk results.dat
Jane 42000
Alice 56000
Bob 31000
Total employees: 3
Average pay: 43000
Name Pass
Alice Pass
Bob Fail
Charlie Pass
```

RESULT:

Thus, to print the Pass/Fail Status of a student in a class is successfully implemented.