Ex. No.: 4a)

Date: 12/02/2025

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. .awk .dat

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:

```
//emp.awk
BEGIN { print "EMPLOYEES DETAILS"}
{#salary should be greater than 6000 and days more than 4
if ($2>6000 && $3>4)
{
print $1 , "\t\t", $2 * $3
pay = pay + $2 * $3
count = count+1
}
}
END {
{#action part
print "no of employees are=", count
print "total pay=", pay
print "average pay=", pay/count
}
}
```

Sample Input:

//emp.dat – Col1 is name, Col2 is Salary Per Day and Col3 is //no. of days worked

JOE 8000 5
RAM 6000 5
TIM 5000 6
BEN 7000 7
AMY 6500 6

Output:
Run the program using the below commands
[student@localhost ~]$ vi emp.dat
[student@localhost ~]$ vi emp.awk
[student@localhost ~]$ gawk -f emp.awk emp.dat.

EMPLOYEES DETAILS
JOE 40000
BEN 49000
AMY 39000
no of employees are= 3
total pay= 128000
average pay= 42666.7
[student@localhost ~]$

EMPLOYEES DETAILS

JOE 40000
BEN 49000
AMY 39000
no of employees are = 3
total pay = 128000
average pay = 42666.7

Result:

A awk script program has been executed to get the employee average pay

Ex. No.: 4b)

Date: 13/02/2025

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:

//marks.awk

```
BEGIN {
print "NAME", "\t", "SUB-1", "\t", "SUB-2", "\t", "SUB-3", "\t", "SUB-4", "\t",
"SUB-5", "\t", "SUB-6", "\t", "STATUS"
print "_____\n"}
{ #BODY
if ($2<45 || $3<45 || $4<45 || $5<45 || $6<45 || $1<45)
{
print $1, "\t", $2, "\t", $3, "\t", $4, "\t", $5, "\t", $6, "\t", $7, "\t", "FAIL"
}
else
{
print $1, "\t", $2, "\t", $3, "\t", $4, "\t", $5, "\t", $6, "\t", $7, "\t", "PASS"
}
} END{
print "_____\n"}
```

Input:

//marks.dat
//Col1 - name, Col 2 to Col7 – marks in various subjects
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:
Run the program using the below command
[root@localhost student]# 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

Result:
A awk script program has been executed to get the results of Examination