Ex. No.: 4(a)   **EMPLOYEE AVERAGE PAY**

Date: *08.02.2025*

Aim:

To find out the average pay of all employees whose salary is more than 6000 and the number of days worked is more than 4.

Algorithm:

1. Create a flat file emp.dat containing employee records with the fields: name, salary per day, and number of days worked.

2. Create an AWK script file emp.awk.

3. For each employee record:

   o If salary per day is greater than 6000 **and** number of days worked is greater than 4:

      ▪ Print the employee name and the total salary earned.

      ▪ Accumulate total pay and count of such employees.

4. At the end of the script:

   o Display the total number of qualified employees.

   o Display the total pay.

   o Display the average pay.

Program Code:

emp.dat – Input File

JOE 8000 5

RAM 6000 5

TIM 5000 6

BEN 7000 7

AMY 6500 6

emp.awk – AWK Script

BEGIN {

   print "EMPLOYEES DETAILS"

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      count = 0

      total = 0

   }

   {

      name = $1

      salary = $2

      days = $3

      if (salary > 6000 && days > 4) {

         pay = salary * days

         print name, pay

         count++

         total += pay

      }

   }

   END {

      print "no of employees are= " count

      print "total pay= " total

      if (count > 0)

         print "average pay= " total / count

      else

         print "average pay= 0"

   }
```

Sample Input and Output:

[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

Result:

The AWK script was successfully implemented to calculate the average pay of employees whose salary is greater than 6000 and who worked more than 4 days. The script executed correctly and the output was verified.