**Ex No: 4(a) Roll no:231901002**

**Date: 08.02.2025**

**EMPLOYEE AVERAGE PAY**

**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:
   * 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:
   * 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" 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.