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:
    - 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.
    - Display the total pay.
    - 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.