# OS LAB MANUAL

(CS23431)

Roll No:230701234

EX.NO:- 4

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

Program:

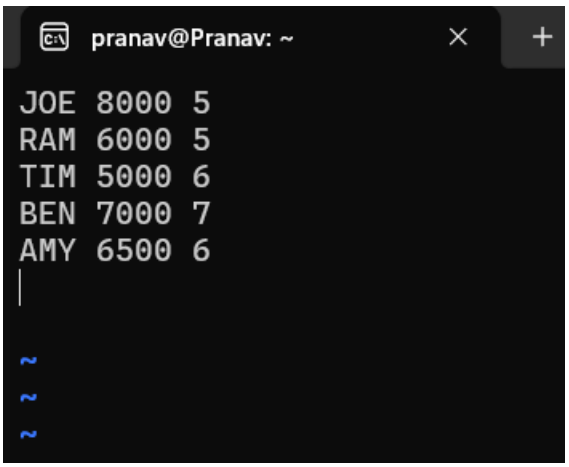
-To Create an awk script emp.awk:

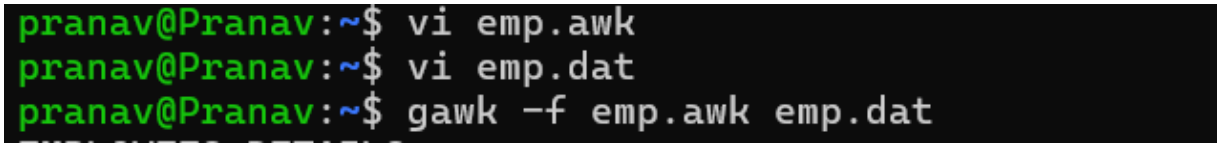
```
BEGIN {
   print "EMPLOYEES DETAILS";
   totalPay = 0;
   count = 0;
}

{
   salaryearned = $2 * $3;
   if ($2 > 6000 && $3 > 4) {
      print $2, salaryearned;
      totalPay += salaryearned;
      count++;
   }
}

END {
   print "no of employees are=", count;
   print "total pay=", totalPay;
```

```
    if (count > 0) {
        avgPay = totalPay / count;
        print "average pay=", avgPay;
    } else {
        print "average pay= 0";
    }
}
```

Input:

-To Create a flat file emp.dat:




Output:

4B)

## RESULTS OF EXAMINATION

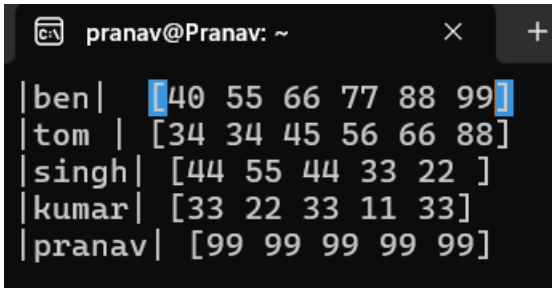
Aim: To print the pass/fail status of a student in a class.

Program Code:  marks.awk:

```
{
   status = "The student has passed";
   for (i = 2; i <= NF; i++) {
      if ($i < 45) {
         status = "Fail ahh,but keep trying";
         break;
      }
   }
   print $0, status;
}
```

Input:

-marks.dat



Output:

```
pranav@Pranav:~$ vi marks.dat
pranav@Pranav:~$ gawk -f marks.awk emp.dat
JOE 8000 5 Fail ahh,but keep trying
RAM 6000 5 Fail ahh,but keep trying
TIM 5000 6 Fail ahh,but keep trying
BEN 7000 7 Fail ahh,but keep trying
AMY 6500 6 Fail ahh,but keep trying
```