

OS LAB MANUAL

(CS23431)

Lab:3

Roll No:230701246

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;
```

```

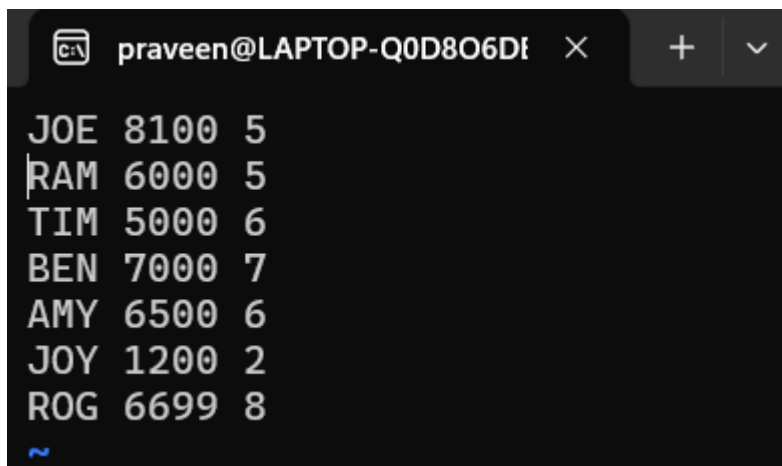
print "total pay=", totalPay;

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

```

Input:

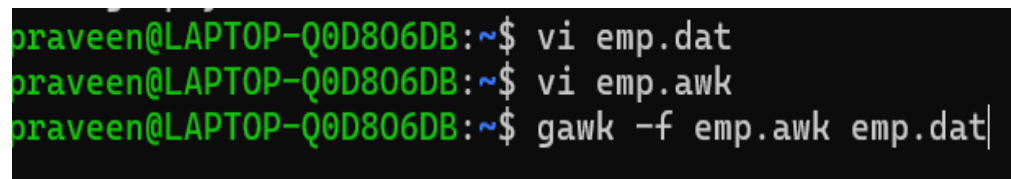
-To Create a flat file emp.dat:



```

praveen@LAPTOP-Q0D8O6DI  X  +  v
JOE 8100 5
RAM 6000 5
TIM 5000 6
BEN 7000 7
AMY 6500 6
JOY 1200 2
ROG 6699 8
~

```

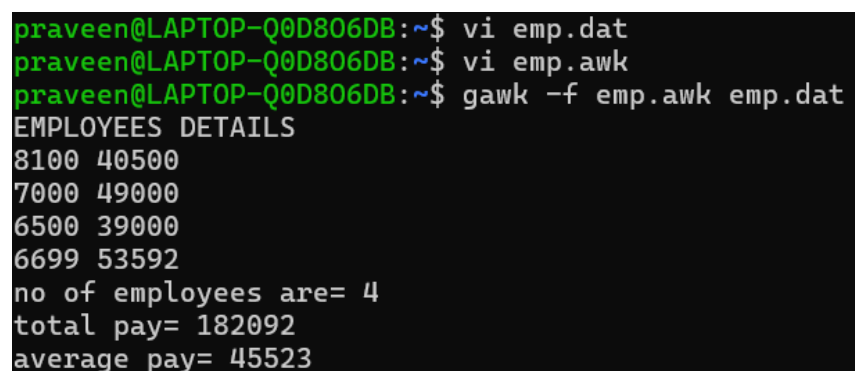


```

praveen@LAPTOP-Q0D8O6DB:~$ vi emp.dat
praveen@LAPTOP-Q0D8O6DB:~$ vi emp.awk
praveen@LAPTOP-Q0D8O6DB:~$ gawk -f emp.awk emp.dat

```

Output:



```

praveen@LAPTOP-Q0D8O6DB:~$ vi emp.dat
praveen@LAPTOP-Q0D8O6DB:~$ vi emp.awk
praveen@LAPTOP-Q0D8O6DB:~$ gawk -f emp.awk emp.dat
EMPLOYEES DETAILS
8100 40500
7000 49000
6500 39000
6699 53592
no of employees are= 4
total pay= 182092
average pay= 45523

```

4B)

RESULTS OF EXAMINATION

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

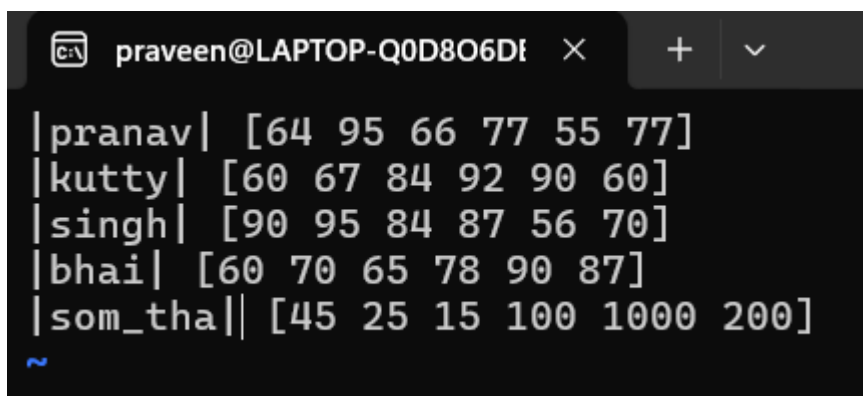
Program Code:

marks.awk:

```
{
    status = "Payya pass pa";
    for (i = 2; i <= NF; i++) {
        if ($i < 45) {
            status = "Fail ahh,but keep trying";
            break;
        }
    }
    print $0, status;
}
```

Input:

-marks.dat



```
praveen@LAPTOP-Q0D8O6DI x + v
|pranav| [64 95 66 77 55 77]
|kutty| [60 67 84 92 90 60]
|singh| [90 95 84 87 56 70]
|bhai| [60 70 65 78 90 87]
|som_tha|| [45 25 15 100 1000 200]
~
```

Output:

```
praveen@LAPTOP-Q0D806DB:~$ vi marks.awk
praveen@LAPTOP-Q0D806DB:~$ vi marks.dat
praveen@LAPTOP-Q0D806DB:~$ gawk -f marks.awk marks.dat
|pranav| [64 95 66 77 55 77] Payya pass pa
|kutty| [60 67 84 92 90 60] Payya pass pa
|singh| [90 95 84 87 56 70] Payya pass pa
|bhai| [60 70 65 78 90 87] Payya pass pa
|som_tha| [45 25 15 100 1000 200] Fail ahh,but keep trying
```