

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;
```

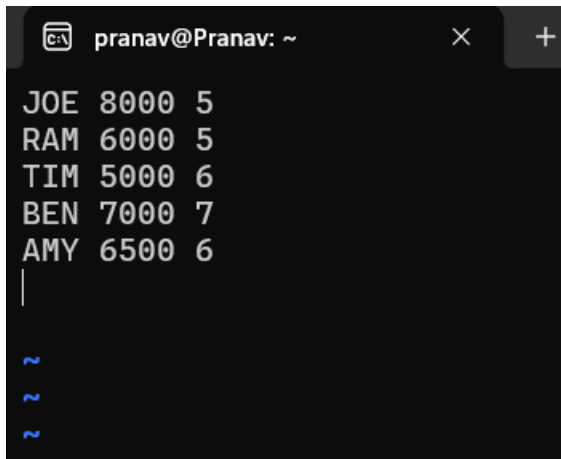
```

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

```

Input:

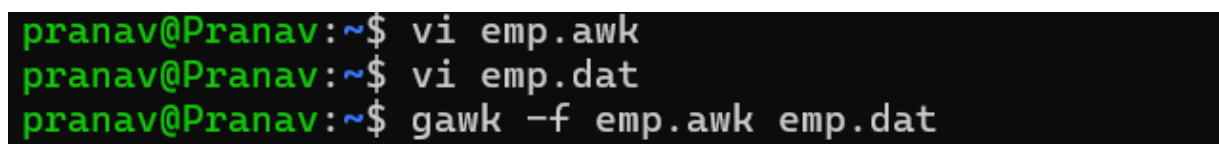
-To Create a flat file emp.dat:



```

pranav@Pranav: ~
JOE 8000 5
RAM 6000 5
TIM 5000 6
BEN 7000 7
AMY 6500 6
|
~
~
~

```

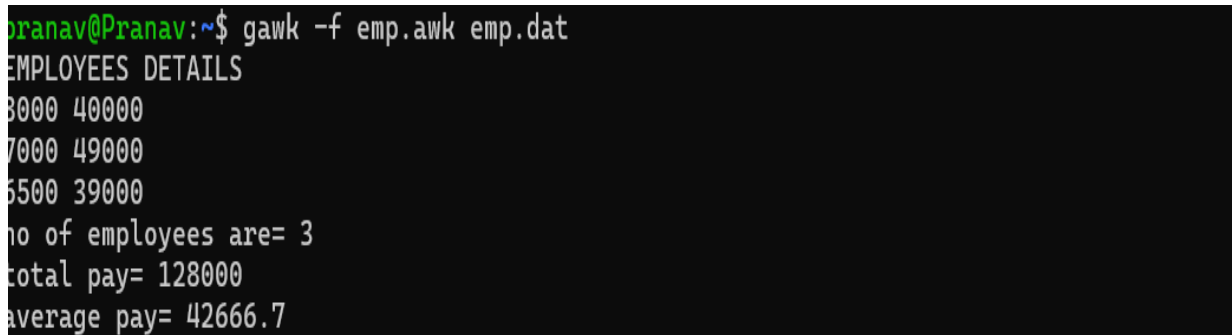


```

pranav@Pranav:~$ vi emp.awk
pranav@Pranav:~$ vi emp.dat
pranav@Pranav:~$ gawk -f emp.awk emp.dat

```

Output:



```

pranav@Pranav:~$ gawk -f emp.awk emp.dat
EMPLOYEES DETAILS
8000 40000
7000 49000
6500 39000
no of employees are= 3
total pay= 128000
average pay= 42666.7

```

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

```
pranav@Pranav: ~  
|ben| [40 55 66 77 88 99]  
|tom | [34 34 45 56 66 88]  
|singh| [44 55 44 33 22 ]  
|kumar| [33 22 33 11 33]  
|pranav| [99 99 99 99 99]
```

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
```