

Ex. No. : 4a

Date : 14.02.2025

Register No. : 230701385

Name : VISHWAK S

AWK Script - Employee Average Pay

Aim:

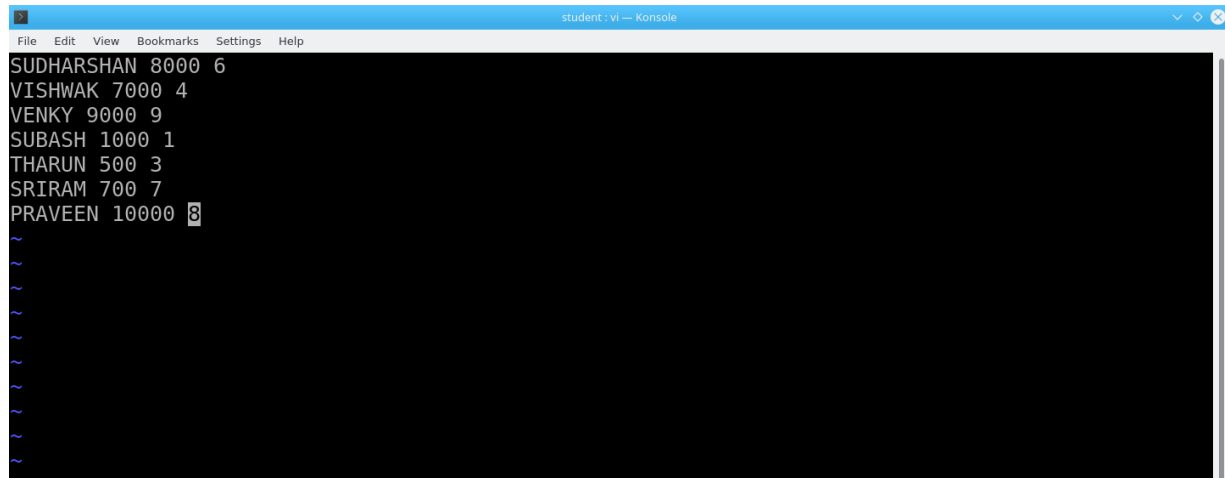
To find out the average pay of all employees whose salary is more than 6000 and no. of days worked is more than 4.

Algorithm:

1. Create a flat file emp.dat for employees with their name, salary per c and number of days worked and save it.
2. Create an awk script emp.awk
3. For each employee record do
 - a. If Salary is greater than 6000 and number of days worked is more than 4, then print name and salary earned
 - b. Compute total pay of employee
4. Print the total number of employees satisfying the criteria and their average pay.

Program:

emp.dat

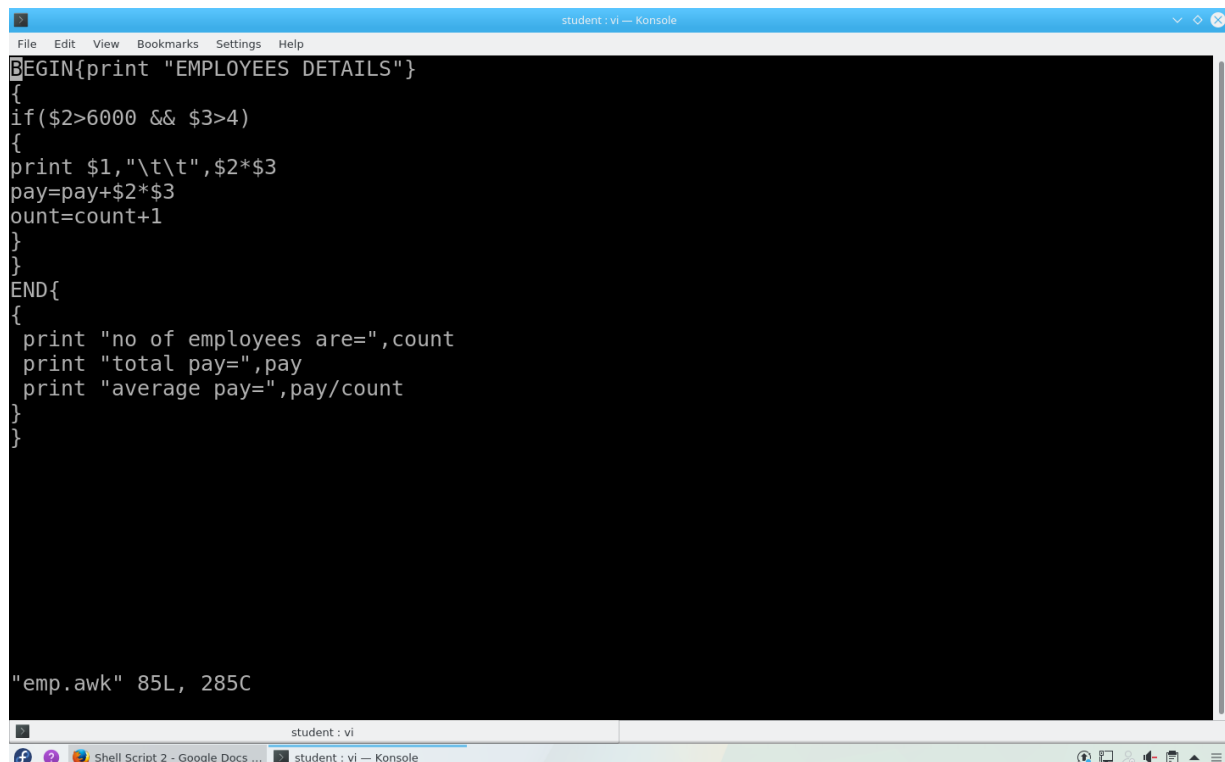


A terminal window titled "student : vi — Konsole" showing the contents of a file named emp.dat. The file contains seven lines of text, each representing an employee's name, salary, and department number. The text is as follows:

```
SUDHARSHAN 8000 6
VISHWAK 7000 4
VENKY 9000 9
SUBASH 1000 1
THARUN 500 3
SRIRAM 700 7
PRAVEEN 10000 8
```

The cursor is positioned at the end of the last line.

emp.awk

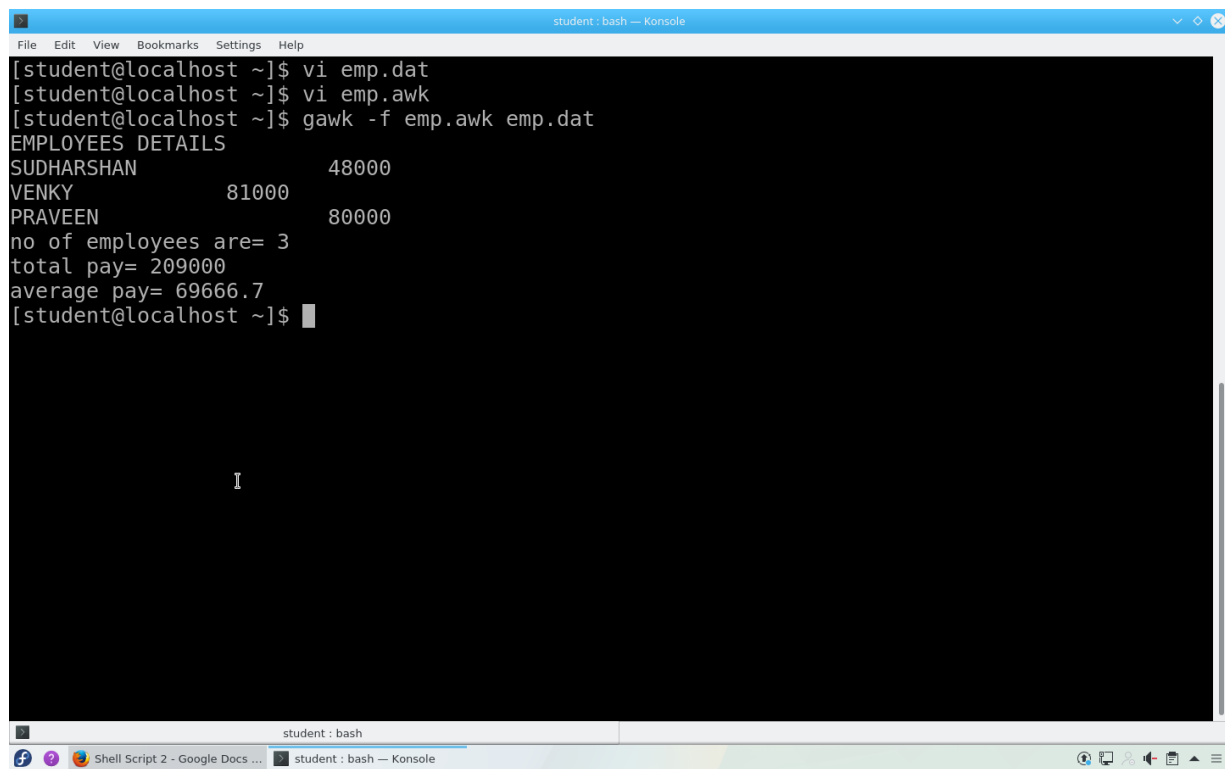


A terminal window titled "student : vi — Konsole" showing the contents of a file named emp.awk. The file contains an awk script that processes the data from emp.dat. The script is as follows:

```
BEGIN{print "EMPLOYEES DETAILS"}
{
if($2>6000 && $3>4)
{
print $1,"\t\t",$2*$3
pay=pay+$2*$3
count=count+1
}
}
END{
{
print "no of employees are=",count
print "total pay=",pay
print "average pay=",pay/count
}
}
```

The cursor is positioned at the end of the last line. At the bottom of the terminal window, the command "emp.awk" is shown with its output: "85L, 285C".

Output:



```
student : bash — Konsole
File Edit View Bookmarks Settings Help
[student@localhost ~]$ vi emp.dat
[student@localhost ~]$ vi emp.awk
[student@localhost ~]$ gawk -f emp.awk emp.dat
EMPLOYEES DETAILS
SUDHARSHAN          48000
VENKY                81000
PRAVEEN              80000
no of employees are= 3
total pay= 209000
average pay= 69666.7
[student@localhost ~]$
```

Result:

Hence the AWK script to find out the average pay of all employees whose salary is more than 6000 and no. of days worked is more than 4 has been executed successfully.

Ex. No. : 4b

Date : 14.02.2025

Register No. : 230701385

Name : VISHWAK S

AWK Script - Result of Examination

Aim:

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

Algorithm:

1. Read the data from file
2. Get a data from each column
3. Compare the all subject marks column
 - a. If marks less than 45 then print Fail
 - b. else print Pass

Program:

marks.dat

```
File Edit View Bookmarks Settings Help
Asif 93 99 97 97 89 71
Aathika 99 100 99 95 90 95
Praveen 90 95 84 87 65 97
Ranavan 30 72 9 7 0 7
ramamoorthy 45 55 66 77 88 99
~
~
~
~
~
~
```

marks.awk

```
File Edit View Bookmarks Settings Help
BEGIN{
print "NAME", "\t", "SUB-1", "\t", "SUB-2", "\t", "SUB- 3", "\t", "SUB-4", "\t", "SUB 5", "\t", "SUB-6", "\t", "STATUS"
print "_____ \n" }
{
if ( $2 < 45 || $3 < 45 || $4 < 45 || $5 < 45 || $6 < 45 || $7 < 45)
{
print $1, "\t", $2, "\t", $3, "\t", $4, "\t", $5, "\t", $6, "\t", $7, "\t", "FAIL"
}
else
{
print $1, "\t", $2, "\t", $3, "\t", $4, "\t", $5, "\t", $6, "\t", $7, "\t", "PASS"
}
}
END {
print "_____ \n" }
I
```

Output:

```
File Edit View Bookmarks Settings Help
[student@localhost ~]$ vi marks.dat
[student@localhost ~]$ vi marks.awk
[student@localhost ~]$ gawk -f marks.awk marks.dat
NAME      SUB-1  SUB-2  SUB- 3  SUB-4  SUB 5  SUB-6  STATUS
-----
Asif      93     99     97     97     89     71     PASS
Aathika   99     100    99     95     90     95     PASS
Praveen   90     95     84     87     65     97     PASS
Ranavan   30     72     9       7       0       7     FAIL
ramamoorthy 45     55     66     77     88     99     PASS

[student@localhost ~]$
```

Result:

Hence the AWK Script to print the pass/fail status of a student in a class has been executed successfully.