

// M Gayathri-1850010580

[gayathri@webminal.org ~]\$cat>workers.txt

george white 18

mark red 18.10

mary blue 10.89

dan black 12.00

susan green 18.00

nora brown 17.20

bruce purple 12.20

john gray 11.00

bob gold 15.00

steve silver 14.67

^C

//1. Write AWK command to print the total number of lines

[gayathri@webminal.org ~]\$awk "END{print NR}" workers.txt

11

//2. Write AWK command to print the number of fields

[gayathri@webminal.org ~]\$awk "END{print NF}" workers.txt

3

//3. Write AWK command to print the last field of last line

[gayathri@webminal.org ~]\$awk 'END{print \$NF}' workers.txt

14.67

//4. Write AWK command to print thr last field of each line

[gayathri@webminal.org ~]\$awk '{print \$3}' workers.txt

18

18.10

10.89

12.00

18.00

17.20

12.20

11.00

15.00

14.67

//5. Write AWK command to print the line that has atleast 2 fields

[gayathri@webminal.org ~]\$awk '(NF>2){print \$0}' workers.txt

george white 18

mark red 18.10

mary blue 10.89

dan black 12.00

susan green 18.00

nora brown 17.20

bruce purple 12.20

john gray 11.00

bob gold 15.00

steve silver 14.67

//7. Write an AWK command that prints the fields in the order of field4, field3, field2, field1

[gayathri@webminal.org ~]\$awk '{print \$4,\$3,\$2,\$1}' workers.txt

18 white george

18.10 red mark
10.89 blue mary
12.00 black dan
18.00 green susan
17.20 brown nora
12.20 purple bruce
11.00 gray john
15.00 gold bob
14.67 silver steve

//8. Write AWK command to print the lines from 2 to 4

```
[gayathri@webminal.org ~]$awk 'NR>=2 && NR<=4 {print $0}' workers.txt  
mark red 18.10  
mary blue 10.89  
dan black 12.00
```

//6. Write AWK command that contains UNIX

```
[gayathri@webminal.org ~]$cat >>workers.txt  
unix cat 19.99  
^C  
[gayathri@webminal.org ~]$awk '/unix/{print $0}' workers.txt  
unix cat 19.99
```

/*9. Create the file named workers.txt with the following

First Name	Last Name	Rate	Hours
George	White	18.00	23
Mark	Red	18.10	20
Mary	Blue	10.89	25
Dan	Black	12.00	0
Susan	Green	18.00	40
Nora	Brown	17.20	46
Bruce	Purple	12.20	52
John	Gray	11.00	39
Bob	Gold	15.00	45
Steve	Silver	14.67	25

*/

```
[gayathri@webminal.org ~]$cat workers.txt  
george white 18.00 23  
mark red 18.10 20  
mary blue 10.89 25  
dan black 12.00 0  
susan green 18.00 40  
nora brown 17.20 46  
bruce purple 12.20 52  
john gray 11.00 39  
bob gold 15.00 45  
steve silver 14.67 25
```

//a. Write awk command to print the first and last name who did not work in the last week

```
[gayathri@webminal.org ~]$awk '{if($4==0) print $0}' workers.txt  
dan black 12.00 0
```

```
//b. Write awk command to print the record of the employee whose rate is $15 or more
[gayathri@webminal.org ~]$awk '{if($3>=15) print $0}' workers.txt
george white 18.00 23
mark red 18.10 20
susan green 18.00 40
nora brown 17.20 46
bob gold 15.00 45
```

```
//c. Write awk command to print the record whose first name is Mary
[gayathri@webminal.org ~]$awk '{if($1=="mary") print $0}' workers.txt
mary blue 10.89 25
```

```
//d. Write awk command to print the record of the employee whose rate between $1 and $18
[gayathri@webminal.org ~]$awk '{if($3<=18 && $3>=1) print $0}' workers.txt
george white 18.00 23
mary blue 10.89 25
dan black 12.00 0
susan green 18.00 40
nora brown 17.20 46
bruce purple 12.20 52
john gray 11.00 39
bob gold 15.00 45
steve silver 14.67 25
```

```
/*
```

10. Create a file sales.txt with the following contents

```
Month Sales
January 20
February 30
March 43
February 34
January 12
June 89
May 97
June 60
July 23
August 13
August 45
October 56
October 45
November 34
```

```
*/
```

```
[gayathri@webminal.org ~]$cat>sales.txt
january 20
february 30
march 43
february 34
january 12
june 89
may 97
june 60
```

july 23
august 13
august 45
october 56
october 45
november 34
^C

//a. Write awk command to find total sales

```
[gayathri@webminal.org ~]$cat>script  
BEGIN{total=0}
```

```
{  
total=total+$2  
}  
END{print total}
```

^C

```
[gayathri@webminal.org ~]$awk -f script sales.txt  
601
```

//b. Write awk script to find the total sales in every month

```
[gayathri@webminal.org ~]$cat>script  
{s[$1]+=$2}
```

```
END{  
for(x in s)  
print(x,s[x])  
}
```

^C

```
[gayathri@webminal.org ~]$awk -f script sales.txt
```

```
january 32  
october 101  
february 64  
june 149  
august 58  
may 97  
july 23  
march 43  
november 34
```

//c. Write awk script to find the months with no sales

```
[gayathri@webminal.org ~]$cat>script  
{if($2==0) print $0}
```

^C

```
[gayathri@webminal.org ~]$awk -f script sales.txt
```

```
[gayathri@webminal.org ~]$
```