

// S Harshini-185001058

[Harsharshars@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

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

11

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

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

3

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

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

14.67

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

[Harsharshars@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

[Harsharshars@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

[Harsharshars@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

[Harsharshars@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

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

unix cat 19.99

^C

[Harsharshars@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

*/

[Harsharshars@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

[Harsharshars@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

[Harsharshars@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

[Harsharshars@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

[Harsharshars@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

*/

[Harsharshars@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

[Harsharshars@webminal.org ~]\$cat>script

```
BEGIN{total=0}
{
total=total+$2
}
END{print total}
^C
[Harsharshars@webminal.org ~]$awk -f script sales.txt
601
```

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

```
[Harsharshars@webminal.org ~]$cat>script
{s[$1]+=$2}
END{
for(x in s)
print(x,s[x])
}
^C
[Harsharshars@webminal.org ~]$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

```
[Harsharshars@webminal.org ~]$cat>script
{if($2==0) print $0}
^C
[Harsharshars@webminal.org ~]$awk -f script sales.txt
[Harsharshars@webminal.org ~]$
```