Experiment 8

30th April 2019

Aim:	To be able to write awk scripts.				

1. Write a awk script that accepts date argument in the form of mm-dd-yy and displays it in the following format. The script should check the validity of the argument and in the case of error, display a suitable message.

Algorithm:

- 1.Start
- 2.Read argument
- 3.If invalid or null argument, print error
- 4. Store day, year, month separately
- 5.Replace numeric month to alphabetical month
- 6.Print "The date is " day "Month is " month "Year is " year
- 7.Stop

The output is as follows:

```
protonegative@fedora ~/work/awkScr / master awk -f awk_1.awk
Enter the date:
05-02-1999
The date is 05 Month is February Year is 1999
protonegative@fedora ~/work/awkScr / master •
```

2. Write an awk script to delete duplicate line from a text file. The order of the original lines must remain unchanged

Algorithm:

- 1.Start
- 2.Read Argument
- 3.If argument is invalid or null, print error
- 4.Print file after deleting duplicate lines
- 5.Stop

The file given as input is:

```
## This is one line
This is one line
This is two line
This is two line
This is three line
This is three line
This is three line
```

The output is as follows:

```
protonegative@fedora > ~/work/awkScr > | master • awk -f awk_2.awk file
This is one line
This is two line
This is three line
protonegative@fedora > ~/work/awkScr > | master • |
```

3. Write an awk script to find out total number of books sold in each discipline as well as total book sold based on the given table:

electrical 34

mechanical 67

electrical 80

computers 43

mechanical 65

civil 198

computers 64

Algorithm:

- 1.Start
- 2.Read argument
- 3.If argument is invalid or null, print error
- 4. Print total number of books sold in each discipline
- 5.Print total number of books
- 6.Stop

The file given as input is:

The output is as follows:

```
protonegative@fedora ~/work/awkScr / master o awk -f awk_3.awk file2
electrical = 114
civil = 198
computers = 107
mechanical = 132
Total = 551
protonegative@fedora ~/work/awkScr / master o
```

4. Write an awk script to compute gross salary of an employee accordingly to rule given below: If basic salary < 10000 then DA = 45% of the basic and HRA =15% of basic If basic salary >= 10000 then DA =50% of the basic and HRA =20% of basic.

Algorithm:

- 1.Start
- 2.Read Salary
- 3.If (salary < 10000) then
- 4.DA = 45% of salary

```
5.HRA = 15% of salary
6.Else
7.DA = 45% of salary
8.HRA = 50% of salary
9.End if
10.Gross salary = DA+HRA+salary
11.Print gross salary
12.Stop
```

```
#!/usr/bin/awk -f

#!/usr/bin/awk -f

BEGIN{

print "Enter the Basic Salary :";

gettline < "/dev/tty";

f($0<10000){

d = 45/100 * 0;

game = 15/100 * $ 0;

game = 15/100 * $ 0;

else{

d = 50/100 * 0;

game = 20/100 * $ 0;

game = 20/100 * $ 0;

game = 20/100 * $ 0;

print "Gross Salary = " gsal

print "Gross Salary = " gsal

print "Gross Salary = " gsal
```

The output is as follows:

protonegative@fedora Enter the Basic Salary 1000000 Gross Salary = 1200000	:) ∤ master •)	awk -f awk_4.awk	
protonegative@fedora	~/work/awkScr)∤ master •		

Result: Learned to write awk scripts.	

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