**Practical: Day03**

1.**touch practice.txt** :

Create a empty file

2**. vi practice.txt** :

Open the practice file 2 write

press to i -then allowed to write

**type**:

aa,11,12,13

bb,21,22,23

cc,31,32,33

dd,41,42,43

ee,51,52,53

ff,61,62,63

gg,71,72,73

hh,55,56,57

ii,99,98,97

jj,00,33,77

kk,22,34,67

**To save**: ctrl +c , shift : , type wq

3. **more practice.txt** :

show the data of practice.txt

{ IT2244\_Day4 } » more practice.txt

aa,11,12,13

bb,21,22,23

cc,31,32,33

dd,41,42,43

ee,51,52,53

ff,61,62,63

gg,71,72,73

hh,55,56,57

ii,99,98,97

jj,00,33,77

kk,22,34,67

4. **cut -d $',' -f1 practice.csv :**  cut 1 field

{ IT2244\_Day4 } » cut -d $',' -f1 practice.txt

aa

bb

cc

dd

ee

ff

gg

hh

ii

jj

kk

5. **cut -d $',' -f1,3 practice.csv** :

cut 1,3 field(column)

{ IT2244\_Day4 } » cut -d $',' -f1,3 practice.txt

aa,12

bb,22

cc,32

dd,42

ee,52

ff,62

gg,72

hh,56

ii,98

jj,33

kk,34

6. **awk '{print}' practice.txt** : prints every line

{ IT2244\_Day4 } » awk '{print}' practice.txt

aa,11,12,13

bb,21,22,23

cc,31,32,33

dd,41,42,43

ee,51,52,53

ff,61,62,63

gg,71,72,73

hh,55,56,57

ii,99,98,97

jj,00,33,77

kk,22,34,67

7.**awk -F, '{print $3}' practice.txt** :

print the third field (column) from each line of the practice.txt

{ IT2244\_Day4 } » awk -F, '{print $3}' practice.txt

12

22

32

42

52

62

72

56

98

33

34

8**.head -n2 practice.txt** :

display the first 2 lines of the file

{ IT2244\_Day4 } » head -n2 practice.txt

aa,11,12,13

bb,21,22,23

9**. tail -n2 practice.txt** :

last 2 lines of the file

{ IT2244\_Day4 } » tail -n2 practice.txt

jj,00,33,77

kk,22,34,67

10**. head -n4 practice.txt | tail -n1 :**

prints only the last line of the first 4 lines.

{ IT2244\_Day4 } » head -n4 practice.txt | tail -n1

dd,41,42,43

11. **awk -F, '{print NF;exit}' practice.txt** :

used to print the number of fields (columns) in the first line of the file practice.txt, using a comma (,) as the delimiter between fields.

The -F, option in awk specifies the field separator,comma

{ IT2244\_Day4 } » awk -F, '{print NF;exit}' practice.txt

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12. **awk '{print NF;exit}' practice.txt** :

used to print the no.of columns in tab separter

13. **awk '{print}' practice.txt :**

prints each line of the file practice.txt

14.**wc -l practice.txt :**

count the number of lines

{ IT2244\_Day4 } » wc -l practice.txt

15. **head -n5 practice.txt | grep 'c'** :

display the first 5 lines of the practice.txt file and then filter out the lines that contain the letter 'c'.

{ IT2244\_Day4 } » head -n5 practice.txt | grep 'c'

cc,31,32,33

16.**cut -d',' -f1,2 practice.txt >> practice1.txt** :

used to extract the first and second fields (columns) from practice.txt where fields are separated by commas (,), and append the output to the file practice1.txt.

{ IT2244\_Day4 } » cut -d',' -f1,2 practice.txt >> practice1.txt

{ IT2244\_Day4 } » more practice1.txt

aa,11

bb,21

cc,31

dd,41

ee,51

ff,61

gg,71

hh,55

ii,99

jj,00

kk,22

17. **head -n 3 practice.txt >> rows.txt** :

sed to extract the first 3 lines from practice.txt and append those lines to rows.txt.

{ IT2244\_Day4 } » head -n 3 practice.txt >> rows.txt

{ IT2244\_Day4 } » more rows.txt

aa,11,12,13

bb,21,22,23

cc,31,32,33

18.**ls -l :**

Total number of file

{ IT2244\_Day4 } » ls -l

total 3

-rwxr--rwx+ 1 shifak ahamed None 0 Mar 23 20:16 file1.txt

-rwxr--rwx+ 1 shifak ahamed None 0 Mar 23 12:43 file1.txt~

-rw-rwxr-x+ 1 shifak ahamed None 0 Mar 23 10:29 new

-rw-rwxr--+ 1 shifak ahamed None 132 Mar 23 21:28 practice.txt

-rw-rwxr--+ 1 shifak ahamed None 0 Mar 23 21:20 practice.txt~

-rw-rwxr--+ 1 shifak ahamed None 66 Mar 23 23:45 practice1.txt

-rw-rwxr--+ 1 shifak ahamed None 36 Mar 23 23:48 rows.txt

19**. ls -ltr :**

he ls -ltr command will list the files and directories in the current directory sorted by the oldest modification time first.

{ IT2244\_Day4 } » ls -ltr

total 3

-rw-rwxr-x+ 1 shifak ahamed None 0 Mar 23 10:29 new

-rwxr--rwx+ 1 shifak ahamed None 0 Mar 23 12:43 file1.txt~

-rwxr--rwx+ 1 shifak ahamed None 0 Mar 23 20:16 file1.txt

-rw-rwxr--+ 1 shifak ahamed None 0 Mar 23 21:20 practice.txt~

-rw-rwxr--+ 1 shifak ahamed None 132 Mar 23 21:28 practice.txt

-rw-rwxr--+ 1 shifak ahamed None 66 Mar 23 23:45 practice1.txt

-rw-rwxr--+ 1 shifak ahamed None 36 Mar 23 23:48 rows.txt