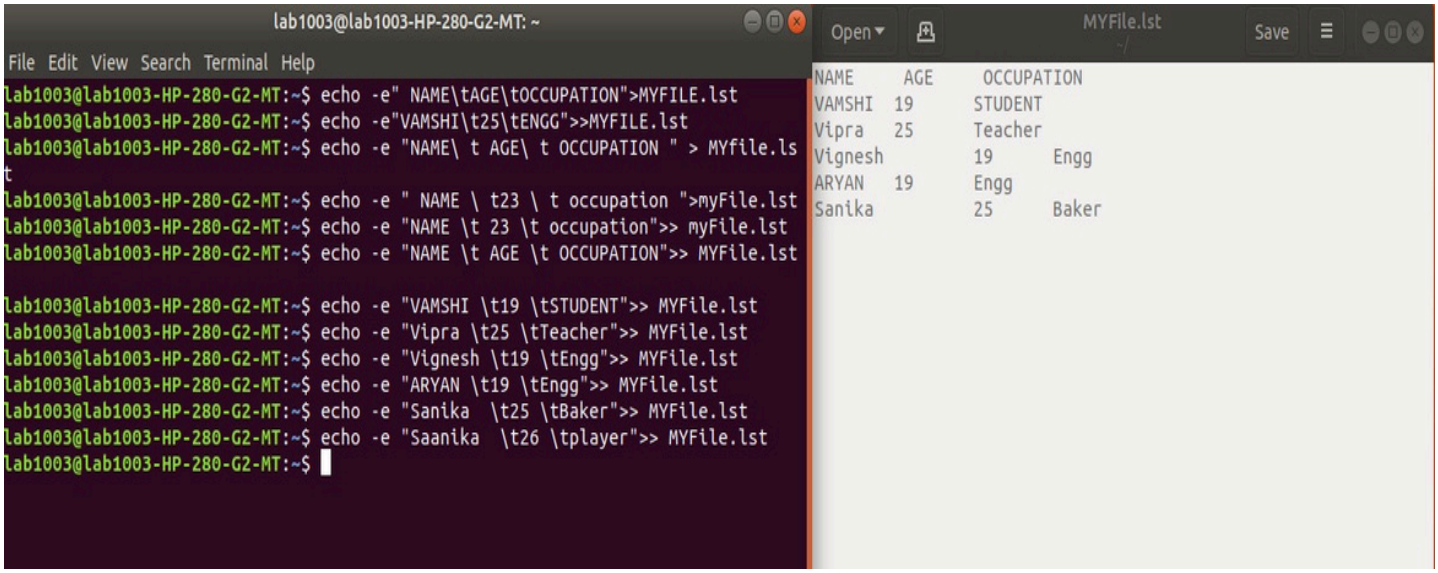
CREATING MY LST FILE

1. create txt file named “myfile.lst”

open cmd:

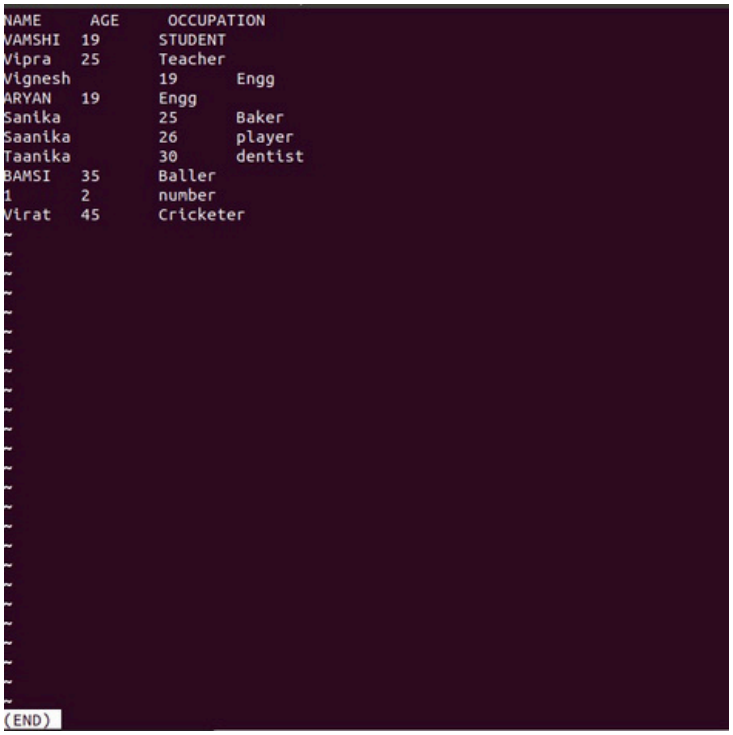
echo -e “name \t age \t occupation > myfile.lst (creating table)

echo -e “vamsi \t 19 \t student >> myfile.lst (inserting values)



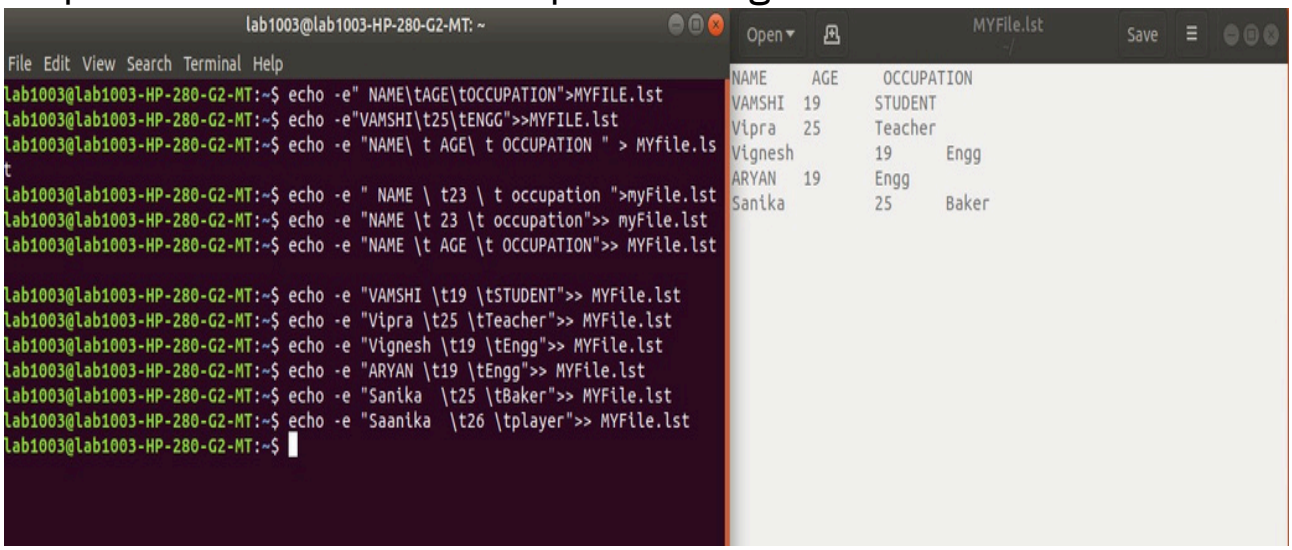
AFTER CREATING LST FILE YOU CAN VIEW THE VALUES IN FILE.:-

USING “VI MYFILE.lst”



GREP COMMANDS

step1:- Create a lst file and update using echo command.



Step2 :- Perform the commands .

1.Search the lines containing the pattern ‘aa’ in the file MYFile.lst

```
lab1003@lab1003-HP-280-G2-MT:~$ grep 'aa' MYFile.lst
Saanika         26      player
```

2.Search lines containing the pattern vipra in file MYFile.lst

```
lab1003@lab1003-HP-280-G2-MT:~$ grep 'Vipra' MYFile.lst
Vipra   25      Teacher
```

3.Display the line no. Along the with the lines containing pattern’Baker” .

```
lab1003@lab1003-HP-280-G2-MT:~$ grep -n 'Baker' MYFile.lst
6:Sanika        25      Baker
```

4.Display the lines not containing the pattern ‘Baker’

```
lab1003@lab1003-HP-280-G2-MT:~$ grep -v 'Baker' MYFile.lst
NAME    AGE     OCCUPATION
VAMSHI  19      STUDENT
Vipra   25      Teacher
Vignesh         19      Engg
ARYAN   19      Engg
Saanika         26      player
```

5) count the numbers along with the lines not containing the ‘baker’ in the File ‘MYFile.lst’

```
lab1003@lab1003-HP-280-G2-MT:~$ grep -c 'dentist' MYFile.lst
1
```

6) Search the line containing the pattern ‘Dentist’ or ‘dentist’ in the file ‘MYFile.lst’

```
lab1003@lab1003-HP-280-G2-MT:~$ grep -i 'dentist' MYFile.lst
Taanika         30      dentist
```

7).print two lines before and after lines containing the pattern ‘ Sanika’.

```
lab1003@lab1003-HP-280-G2-MT:~$ grep -B2 -A2 'Sanika' MYFile.lst
Vignesh         19      Engg
ARYAN   19      Engg
Sanika          25      Baker
Saanika         26      player
Taanika         30      dentist
```

8). Print the lines containing the pattern ‘r’ in the file ‘myfile.lst’

```
lab1003@lab1003-OptiPlex-3020:~$ grep 'r' myfile.lst
Vedant   18      Student         23 February 2003
Rohan    21      Milkman         29 February 2000
Aryan    23      Tailor          22 May 2000
Suresh   34      Farmer          14 April 1990
Pankaj   19      Teacher         04 June 2006
Atharva  32      Baker           04 January  1982
Vipra    32      Dentist         21 December  1990
Sanika   34      Pilot           21 December 2001
Harsh    34      Watchman        21 March 1992
```

9). Display all records that have or do not have the pattern ‘B’ in the file ‘myfile.lst’

```
lab1003@lab1003-OptiPlex-3020:~$ grep 'B[^B]' myfile.lst
Atharva  32      Baker           04 January  1982
```

10). Display all the records starting with ‘1’ in the file ‘myfile.lst’

```
lab1003@lab1003-OptiPlex-3020:~$ grep '^|' myfile.lst
```

11). Display all the records ending with ‘a’ in the file ‘myfile.lst’

```
lab1003@lab1003-OptiPlex-3020:~$ grep 'a$' myfile.lst
```

12). Display all records containing the pattern ending with ‘er’ and have 5 letters before them in the file ‘myfile.lst’

```
lab1003@lab1003-OptiPlex-3020:~$ grep '...er' myfile.lst
Suresh    34      Farmer          14 April 1990
Pankaj    19      Teacher         04 June 2006
Atharva   32      Baker           04 January  1982
Vipra     32      Dentist         21 December  1990
Sanika    34      Pilot           21 December 2001
```

13).Display all records containing the pattern ‘D.....t’ in the file ‘myfile.lst’

```
lab1003@lab1003-OptiPlex-3020:~$ grep '^D.*t$' myfile.lst
```

14). Display all records whose age starts with ‘2’ in the file ‘myfile.lst’

```
lab1003@lab1003-OptiPlex-3020:~$ grep '^2' myfile.lst
```

15). Print the lines which does not start with digit in the range 2 to 4 in the file ‘myfile.lst’

```
lab1003@lab1003-OptiPlex-3020:~$ grep -v  '^[2-4]' myfile.lst
Name      Age     Ocupation       DOB
Vedant    18      Student         23 February 2003
Rohan     21      Milkman         29 February 2000
Aryan     23      Tailor          22 May 2000
Rahul     34      Coal Man        14 May 1970
Suresh    34      Farmer          14 April 1990
Raunak    19      Student         14 June 2001
Pankaj    19      Teacher         04 June 2006
Om        35      Pilot           04 July 2003
Atharva   32      Baker           04 January  1982
Vipra     32      Dentist         21 December  1990
Sanika    34      Pilot           21 December 2001
Harsh     34      Watchman        21 March 1992
```

16). Print all the records containing the letter in the range H to K in the file ‘myfile.lst’

```
lab1003@lab1003-OptiPlex-3020:~$ grep '[H-K]' myfile.lst
Raunak    19        Student           14 June 2001
Pankaj    19        Teacher           04 June 2006
Om        35        Pilot             04 July 2003
Atharva   32        Baker             04 January  1982
Harsh     34        Watchman          21 March 1992
```

AWK COMMANDS in UNIX

Q.1 Print all records of Myfile.lst using awk

```
lab1003@lab1003-OptiPlex-3020:~$ awk '{print}' myfile.lst
Name      Age      Ocupation        DOB
Vedant    18       Student          23 February 2003
Rohan     21       Milkman          29 February 2000
Aryan     23       Tailor           22 May 2000
Rahul     34       Coal Man         14 May 1970
Suresh    34       Farmer           14 April 1990
Raunak    19       Student          14 June 2001
Pankaj    19       Teacher          04 June 2006
Om        35       Pilot            04 July 2003
Atharva   32       Baker            04 January  1982
Vipra     32       Dentist          21 December  1990
Sanika    34       Pilot            21 December 2001
Harsh     34       Watchman         21 March 1992
```

Q.2 print first two field of Myfile.lst

```
lab1003@lab1003-OptiPlex-3020:~$ awk '{print $1, $2}' myfile.lst
Name Age
Vedant 18
Rohan 21
Aryan 23
Rahul 34
Suresh 34
Raunak 19
Pankaj 19
Om 35
Atharva 32
Vipra 32
Sanika 34
Harsh 34
```

Q.3 print only those records having ‘Dentist’ as occupation

```
lab1003@lab1003-OptiPlex-3020:~$ awk '$3 == "Dentist"' myfile.lst
Vipra     32       Dentist          21 December  1990
```

Q.4 print records having age<24

```
lab1003@lab1003-OptiPlex-3020:~$ awk '$2<24' myfile.lst
Vedant    18       Student          23 February 2003
Rohan     21       Milkman          29 February 2000
Aryan     23       Tailor           22 May 2000
Raunak    19       Student          14 June 2001
Pankaj    19       Teacher          04 June 2006
```

Q.5 print records having age<20 or age>40

```
lab1003@lab1003-OptiPlex-3020:~$ awk '$2<20 || $2>40' myfile.lst
Name      Age      Ocupation        DOB
Vedant    18       Student          23 February 2003
Raunak    19       Student          14 June 2001
Pankaj    19       Teacher          04 June 2006
```

Q.6 print all records whose occupation is ‘Engineer’

```
lab1003@lab1003-OptiPlex-3020:~$ awk -F '\t' '$3 =="Engineering"' myfile.lst
```

Q.7 print all records whose occupation is not ‘Engineer’

```
lab1003@lab1003-OptiPlex-3020:~$ awk  '!/a$/' myfile.lst
Name      Age      Ocupation        DOB
Vedant    18       Student          23 February 2003
Rohan     21       Milkman          29 February 2000
Aryan     23       Tailor           22 May 2000
Rahul     34       Coal Man         14 May 1970
Suresh    34       Farmer           14 April 1990
Raunak    19       Student          14 June 2001
Pankaj    19       Teacher          04 June 2006
Om        35       Pilot            04 July 2003
Atharva   32       Baker            04 January  1982
Vipra     32       Dentist          21 December  1990
Sanika    34       Pilot            21 December 2001
Harsh     34       Watchman         21 March 1992
```

Q.8 print records not ending with character ‘a’

```
lab1003@lab1003-OptiPlex-3020:~$ awk  '!/a$/' myfile.lst
Name      Age      Ocupation        DOB
Vedant    18       Student          23 February 2003
Rohan     21       Milkman          29 February 2000
Aryan     23       Tailor           22 May 2000
Rahul     34       Coal Man         14 May 1970
Suresh    34       Farmer           14 April 1990
Raunak    19       Student          14 June 2001
Pankaj    19       Teacher          04 June 2006
Om        35       Pilot            04 July 2003
Atharva   32       Baker            04 January  1982
Vipra     32       Dentist          21 December  1990
Sanika    34       Pilot            21 December 2001
Harsh     34       Watchman         21 March 1992
```

Q.9 print names of Myfile.lst having occupation ‘Dentist’

```
lab1003@lab1003-OptiPlex-3020:~$ awk '$3 == "Dentist"' myfile.lst
Vipra    32      Dentist         21 December  1990
```

Q10. Display records from 3 to 7.

```
lab1003@lab1003-OptiPlex-3020:~$ awk 'NR >= 3 && NR<=7' myfile.lst
Rohan    21      Milkman         29 February 2000
Aryan    23      Tailor          22 May 2000
Rahul    34      Coal Man        14 May 1970
Suresh   34      Farmer          14 April 1990
Raunak   19      Student         14 June 2001
```

Q.11 display name and occupation of records number 2 or record 7

```
lab1003@lab1003-OptiPlex-3020:~$ awk 'NR == 2 || NR==7' myfile.lst
Vedant   18      Student         23 February 2003
Raunak   19      Student         14 June 2001
```

Q.12 print number of field in each line of myfile

```
lab1003@lab1003-OptiPlex-3020:~$ awk '{print NF}' myfile.lst
4
6
6
6
7
6
6
6
6
6
6
6
6
6
0
```

Q.13 print last field of each line in myfile.lst

```
lab1003@lab1003-OptiPlex-3020:~$ awk '{print $NF}' myfile.lst
DOB
2003
2000
2000
1970
1990
2001
2006
2003
1982
1990
2001
1992
```

Q.14 print all the records having ‘A’ at the beginning of their first field

```
lab1003@lab1003-OptiPlex-3020:~$ awk '$1 ~/^A/' myfile.lst
Aryan    23      Tailor          22 May 2000
Atharva  32      Baker           04 January  1982
```

Q.15 print all records whose length is more than 32 .

```
lab1003@lab1003-OptiPlex-3020:~$ awk 'length ($0)>32' myfile.lst
Vedant   18      Student         23 February 2003
Rohan    21      Milkman         29 February 2000
Aryan    23      Tailor          22 May 2000
Rahul    34      Coal Man        14 May 1970
Suresh   34      Farmer          14 April 1990
Raunak   19      Student         14 June 2001
Pankaj   19      Teacher         04 June 2006
Atharva  32      Baker           04 January  1982
Vipra    32      Dentist         21 December  1990
Sanika   34      Pilot           21 December 2001
Harsh    34      Watchman        21 March 1992
```

Q.16 print records whose date of joining is 20 and given is 2024 and whose name starts with ‘V’

SED commands (LO 6)

1) Print first 3 records from bank.lst

```
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Desktop/aryan_s21$ sed -n '1,3p' Bank.lst
101       Aditya  0       14/11/2000      current
100       Aryan   10000   1/11/2000       savings
102       Naman   0       20/08/2009      current
```

2) Remove duplicate and unwanted lines while printing first and second line

```
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Desktop/aryan_s21$ sed -n '1,2p' Bank.lst
101       Aditya  0       14/11/2000      current
100       Aryan   10000   1/11/2000       savings
```

3)print first and second line

```
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Desktop/aryan_s21$ sed -n '1,2p' Bank.lst
101       Aditya  0       14/11/2000      current
100       Aryan   10000   1/11/2000       savings
```

4) print last record

```
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Desktop/aryan_s21$ sed -n '$p' Bank.lst
110       Sudhanshu       130     16/11/2009      savings
```

5) using sed command copy first four record to occ.lst

```
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Desktop/aryan_s21$ sed -i '12i\111 Darshan 20000 16/12/2020 savings' Bank.lst
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Desktop/aryan_s21$ cat Bank.lst
101       Aditya  0       14/11/2000      current
New Record
100       Aryan   10000   1/11/2000       savings
102       Naman   0       20/08/2009      current
103       Ram     10000   15/08/2010      savings
104       Jyotsna         5000    16/06/2012      savings
105       Mukesh          14000   20/12/2009      current
106       Vishal          14500   30/11/2011      saving
107       Chirag          0       15/12/2012      current
108       Arya    16000   14/12/2010      current
109       Priya   130     16/11/2009      savings
111 Darshan 20000 16/12/2020 savings
110       Sudhanshu       130     16/11/2009      savings
```

6) insert a new record in bank.lst

```
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Desktop/aryan_s21$ sed -n '1,4p' Bank.lst > occ.lst
```

```
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Desktop/aryan_s21$ cat occ.lst
101     Aditya  0       14/11/2000      current
100     Aryan   10000   1/11/2000       savings
102     Naman   0       20/08/2009      current
103     Ram     10000   15/08/2010      savings
```

7) display “my world” after every line in bank.lst

```
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Desktop/aryan_s21$ sed -i 's/$/ my world/' Bank.lst
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Desktop/aryan_s21$ cat Bank.lst
101     Aditya  0       14/11/2000      current my world
New Record my world
100     Aryan   10000   1/11/2000       savings my world
102     Naman   0       20/08/2009      current my world
103     Ram     10000   15/08/2010      savings my world
104     Jyotsna         5000    16/06/2012      savings my world
105     Mukesh          14000   20/12/2009      current my world
106     Vishal          14500   30/11/2011      saving my world
107     Chirag          0       15/12/2012      current my world
108     Arya    16000   14/12/2010      current my world
109     Priya   130     16/11/2009      savings my world
111 Darshan 20000 16/12/2020 savings my world
110     Sudhanshu       130     16/11/2009      savings my world
```

8)delete a specific pattern from bank.lst

```
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Desktop/aryan_s21$ sed -i '/New Record/d' Bank.lst
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Desktop/aryan_s21$ sed -i '/Darshan/d' Bank.lst
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Desktop/aryan_s21$ cat Bank.lst
101     Aditya  0       14/11/2000      current my world
100     Aryan   10000   1/11/2000       savings my world
102     Naman   0       20/08/2009      current my world
103     Ram     10000   15/08/2010      savings my world
104     Jyotsna         5000    16/06/2012      savings my world
105     Mukesh          14000   20/12/2009      current my world
106     Vishal          14500   30/11/2011      saving my world
107     Chirag          0       15/12/2012      current my world
108     Arya    16000   14/12/2010      current my world
109     Priya   130     16/11/2009      savings my world
110     Sudhanshu       130     16/11/2009      savings my world
```

9)replace all occurene of “my world” with spaces

```
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Desktop/aryan_s21$ sed -i 's/my world//g' Bank.lst
lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Desktop/aryan_s21$ cat Bank.lst
101      Aditya  0       14/11/2000      current
100      Aryan   10000   1/11/2000       savings
102      Naman   0       20/08/2009      current
103      Ram     10000   15/08/2010      savings
104      Jyotsna         5000    16/06/2012      savings
105      Mukesh          14000   20/12/2009      current
106      Vishal          14500   30/11/2011      saving
107      Chirag          0       15/12/2012      current
108      Arya    16000   14/12/2010      current
109      Priya   130     16/11/2009      savings
110      Sudhanshu       130     16/11/2009      savings
```