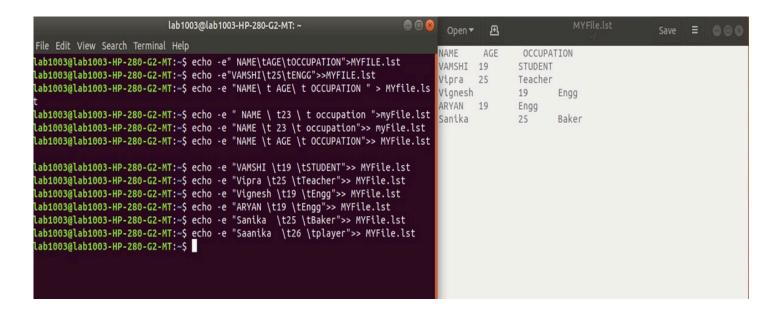
## CREATING MY LST FILE

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)



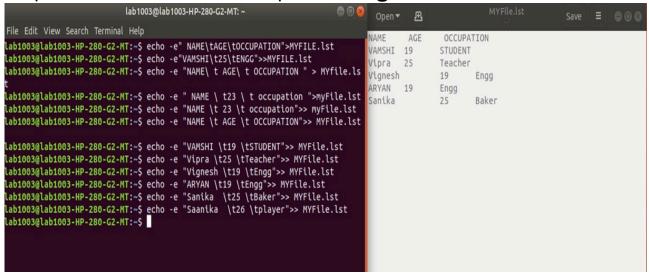
AFTER CREATING LST FILE YOU CAN VIEW THE VALUES IN FILE .:-

# USING "VI MYFILE.lst"

```
OCCUPATION
VAMSHI
         19
25
                    STUDENT
                    Teacher
Vipra
Vignesh
ARYAN
                    19
Engg
                              Engg
Sanika
Saanika
                              Baker
                    26
30
                              player
dentist
BAMSI
                    Baller
                    number
Virat
         45
                    Cricketer
(END)
```

## **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
S<mark>aa</mark>nika 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
<mark>Sanika</mark> 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
                                 29 February 2000
Rohan
         21
                 Milkman
                                 22 May 2000
Aryan
         23
                 Tailor
Suresh
         34
                 Farmer
                                 14 April 1990
         19
Pankaj
                 Teacher
                                 04 June 2006
Atharva
        32
                                 04 January 1982
                                 21 December
Vipra
         32
                 Dentist
                                              1990
                                  21 December 2001
Sanika
         34
                 Pilot
                 Watchman
Harsh
                                 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
                  Farmer
                                   14 April 1990
Suresh
         34
                  Teacher
Pankaj
                                  04 June 2006
         19
                                   04 January
Atharva
         32
                  Baker
                                               1982
                                   21 December
Vipra
         32
                  Dentist
                                                 1990
Sanika
                  Pilot
                                   21 December 2001
         34
```

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
                 Ocupation
                                  DOB
Name
         Age
Vedant
                 Student
                                  23 February 2003
         18
                 Milkman
Rohan
         21
                                  29 February 2000
         23
                 Tailor
                                  22 May 2000
Aryan
                                  14 May 1970
Rahul
         34
                 Coal Man
                                  14 April 1990
Suresh
         34
                 Farmer
Raunak
         19
                 Student
                                  14 June 2001
Pankaj
                                  04 June 2006
         19
                 Teacher
Om
         35
                 Pilot
                                  04 July 2003
                                  04 January
Atharva
         32
                 Baker
         32
                                  21 December
Vipra
                 Dentist
                                                1990
Sanika
         34
                                  21 December 2001
                 Pilot
                 Watchman
                                  21 March 1992
Harsh
         34
```

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
                 Student
                                  14 June 2001
         19
Pankaj
                 Teacher
         19
                                  04 June 2006
                 Pilot
                                  04 July 2003
Om
         35
                                  04 January 1982
Atharva
         32
                 Baker
                                  21 March 1992
 arsh
                 Watchman
         34
```

### **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
                                  14 April 1990
         34
                 Farmer
Raunak
         19
                 Student
                                  14 June 2001
Pankai
         19
                 Teacher
                                  04 June 2006
                 Pilot
                                  04 July 2003
Om
         35
Atharva
         32
                 Baker
                                  04 January
                                               1982
Vipra
                                  21 December
         32
                 Dentist
                                                1990
Sanika
                 Pilot
                                  21 December 2001
         34
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

```
l<mark>ab1003@lab1003-OptiPlex-3020:~</mark>$ 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
         19
                  Teacher
                                  04 June 2006
Pankaj
```

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

```
lab1003@lab1003-OptiPlex-3020:~$ awk '$2<20 || $2>40' myfile.lst
                  Ocupation |
Name
         Age
                                   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:~\frac{a}{b} 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
                  Ocupation
                                   DOB
         Age
Vedant
         18
                  Student
                                   23 February 2003
Rohan
         21
                 Milkman
                                   29 February 2000
Arvan
         23
                 Tailor
                                   22 May 2000
Rahul
         34
                 Coal Man
                                  14 May 1970
         34
                                   14 April 1990
Suresh
                 Farmer
Raunak
         19
                 Student
                                   14 June 2001
Pankaj
         19
                 Teacher
                                  04 June 2006
         35
                                   04 July 2003
Om
                 Pilot
                                   04 January
Atharva
         32
                 Baker
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
                  Ocupation |
                                   DOB
         Age
Vedant
         18
                  Student
                                   23 February 2003
                                   29 February 2000
                  Milkman
Rohan
         21
         23
                  Tailor
                                   22 May 2000
Aryan
Rahul
         34
                  Coal Man
                                   14 May 1970
Suresh
         34
                                   14 April 1990
                  Farmer
Raunak
         19
                  Student
                                   14 June 2001
                                   04 June 2006
Pankaj
         19
                  Teacher
         35
                  Pilot
                                   04 July 2003
Om
Atharva
         32
                 Baker
                                   04 January
Vipra
                                   21 December
         32
                  Dentist
                                                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
                 Tailor
         23
                                  22 May 2000
Rahul
         34
                 Coal Man
                                  14 May 1970
Suresh
                                  14 April 1990
         34
                 Farmer
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 <u>1</u>4 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
6
6
6
6
```

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

2001

2001
```

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
                 Tailor
                                 22 May 2000
         23
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
                 Pilot
                                 21 December 2001
         34
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
                          14/11/2000
                 0
                                          current
                          1/11/2000
100
         Aryan
                 10000
                                          savings
102
                          20/08/2009
         Naman
                 0
                                          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

#### 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
101
New
100
102
              Aryan
Naman
                          10000
                                       1/11/2000
                                                                savings
                                       20/08/2009
15/08/2010
                          10000
                                                                current
103
                                                  16/06/2012
20/12/2009
30/11/2011
104
105
              Jyotsna
Mukesh
                                       5000
14000
                                                                             savings
                                                                             current
                                                                             saving
                                                    15/12/2012
107
              Chirag
                                                                             current
             Arya
Priya
                                       14/12/2010
108
                                                                current
                          16000
                          130
                                        16/11/2009
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
          Aditya 0
                            14/11/2000
                                             current
100
                                              savings
          Aryan
                   10000
                            1/11/2000
102
                            20/08/2009
          Naman
                   0
                                             current
                            15/08/2010
103
          Ram
                   10000
                                             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
         Aditya 0
                           14/11/2000
101
                                             current my world
New Record my world
         Aryan 10000 1/11/2000
100
                                             savings my world
102
          Naman
                  0
                           20/08/2009
                                             current my world
103
          Ram
                   10000
                            15/08/2010
                                             savings my world
                            5000
                                    16/06/2012
104
          Jyotsna
                                                     savings my world
                                    20/12/2009 30/11/2011
                                                    current my world
105
                            14000
          Mukesh
106
          Vishal
                            14500
                                                      saving my world
         Chirag
                                    15/12/2012
107
                            0
                                                      current my world
                  16000
                           14/12/2010
         Arya 16000
Priya 130
                                             current my world
108
109
                            16/11/2009
                                             savings my world
111 Darshan 20000 16/12/2020 savings my world
                           130 16/11/2009
110
         Sudhanshu
                                                      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.lab1003@lab1003-HP-280-G4-MT-Business-PC:~/Desktop/aryan_s21$ sed -i '/Darshan/d' Bank.lstlab1003@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
                                                                                                                                               /New Record/d' Bank.lst
103
                                 10000
                                                                                   savings my world
                 Ram
                                                  15/08/2010
                                                  5000 16/06/2012
14000 20/12/2009
14500 30/11/2011
0 15/12/2012
                                                                                                  savings my world
current my world
saving my world
104
                 Jyotsna
105
                 Mukesh
                 Vishal
106
                 Chirag
107
                                                                                                  current my world
                                                                                  current my world
savings my world
108
                 Агуа
                                  16000
                                                   14/12/2010
109
                 Priya
                                 130
                                                   16/11/2009
110
                 Sudhanshu
                                                   130
                                                                16/11/2009
                                                                                                  savings my world
```