

GREP command in UNIX

```
root@MUM084:~# cd Desktop
```

```
root@MUM084:~/Desktop# ls
```

```
a.out      expressiontree.c~ linkedlist.c~ s2179.c~
bank.lst   heap.c~        LL1.c~      sadfs.c~
bank.txt   heapsort.c~    LL.c~      shachi
bfs.c~     infix.c~      Mergesort.txt~ SJF1.c~
BFS.c~     Infixtopostfix.c~ newbank.lst SJF.c~
clist.lst  instr.fil     Que.c~     SRTN.c~
convolution.java~ ITU.java~   queue.c~   SRTN.C~
dequeue.c~ ks.java~     queuelist.c~ Untitled Folder
Expression.c~ linkedlist.c~ round.c~
```

```
root@MUM084:~/Desktop# man grep
```

```
root@MUM084:~/Desktop# cat bank.lst
```

```
101  Aditya 0      14/11/2000  current
102  Anil  10000 20/05/2011  saving
103  Naman0    20/08/2009  current
104  Ram  10000 15/08/2010  saving
105  Jyotsna    5000 16/06/2012  saving
106  Mukesh    14000 20/12/2009  Current
107  Vishal 14500 30/11/2011  saving
108  Chirag 0     15/12/2012  Current
109  Arya  16000 14/12/2010  Current
110  Priya  130   16/11/2009  Saving
```

Search lines containing the pattern 'mu' in file bank.lst

```
root@MUM084:~/Desktop# grep mu bank.lst
```

Since mu is not there in bank.lst, it displays nothing on screen

Search lines containing the pattern 'Mu' in file bank.lst

```
root@MUM084:~/Desktop# grep Mu bank.lst
```

```
106  Mukesh    14000 20/12/2009  Current
```

Search lines containing the pattern 'current' in file bank.lst

```
root@MUM084:~/Desktop# grep current bank.lst
```

```
101  Aditya 0      14/11/2000  current
103  Naman0    20/08/2009  current
```

Search lines containing the pattern 'Current' in file bank.lst

```
root@MUM084:~/Desktop# grep Current bank.lst
```

```
106  Mukesh    14000 20/12/2009  Current
108  Chirag 0     15/12/2012  Current
109  Arya  16000 14/12/2010  Current
```

Search lines containing the pattern 'Mu' in file bank.lst and bnk.lst

```
root@MUM084:~/Desktop# grep Current bank.lst bnk.lst
```

```
bank.lst:106 Mukesh      14000 20/12/2009 Current
bank.lst:108 Chirag 0    15/12/2012 Current
bank.lst:109 Arya  16000 14/12/2010 Current
grep: bnk.lst: No such file or directory
```

Search lines containing the pattern 'Chirag' in file bank.lst

```
root@MUM084:~/Desktop# grep 'Chirag' bank.lst
108 Chirag 0    15/12/2012 Current
OR
root@MUM084:~/Desktop# grep Chirag bank.lst
108 Chirag 0    15/12/2012 Current
```

Count the number of lines containing the pattern 'Current' in file bank.lst

```
root@MUM084:~/Desktop# grep -c Current bank.lst
3
```

Count the number of lines containing the pattern 'current' in file bank.lst

```
root@MUM084:~/Desktop# grep -c current bank.lst
2
```

Display line numbers along with lines containing the pattern 'current' in file bank.lst

```
root@MUM084:~/Desktop# grep -n current bank.lst
1:101 Aditya 0    14/11/2000 current
3:103 Naman0    20/08/2009 current
```

Display lines **not** containing the pattern 'current' in file bank.lst

```
root@MUM084:~/Desktop# grep -v current bank.lst
102 Anil  10000 20/05/2011 saving
104 Ram  10000 15/08/2010 saving
105 Jyotsna 5000 16/06/2012 saving
106 Mukesh 14000 20/12/2009 Current
107 Vishal 14500 30/11/2011 saving
108 Chirag 0    15/12/2012 Current
109 Arya  16000 14/12/2010 Current
110 Priya 130 16/11/2009 Saving
```

List the file names containing the pattern 'current' in file bank.lst

```
root@MUM084:~/Desktop# grep -l current *.lst
bank.lst
clist.lst
newbank.lst
```

List the file names not containing the pattern 'current' in file bank.lst

```
root@MUM084:~/Desktop# grep -L current *.java~
convolution.java~
ITU.java~
ks.java~
```

Search lines containing the pattern 'Current' or 'current' in file bank.lst (i.e. case insensitive)

```
root@MUM084:~/Desktop# grep -i current bank.lst
101 Aditya 0    14/11/2000 current
103 Naman0    20/08/2009 current
```

```
106 Mukesh      14000 20/12/2009 Current
108 Chirag 0     15/12/2012 Current
109 Arya 16000 14/12/2010 Current
```

Search lines containing the pattern 'Current' or 'current' in file bank.lst (i.e. case insensitive)
Here -e is used to indicate OR.

```
root@MUM084:~/Desktop# grep -e current -e Current bank.lst
```

```
101 Aditya 0      14/11/2000 current
103 Naman0       20/08/2009 current
106 Mukesh      14000 20/12/2009 Current
108 Chirag 0     15/12/2012 Current
109 Arya 16000 14/12/2010 Current
```

Prints 2 lines before and after the line containing pattern 'Jyotsna'

```
root@MUM084:~/Desktop# grep -2 -i Jyotsna bank.lst
```

```
103 Naman0       20/08/2009 current
104 Ram 10000 15/08/2010 saving
105 Jyotsna      5000 16/06/2012 saving
106 Mukesh      14000 20/12/2009 Current
107 Vishal 14500 30/11/2011 saving
```

Prints 2 lines before and after the line containing pattern 'current' or 'Current'

```
root@MUM084:~/Desktop# grep -2 -i current bank.lst
```

```
101 Aditya 0      14/11/2000 current
102 Anil 10000 20/05/2011 saving
103 Naman0       20/08/2009 current
104 Ram 10000 15/08/2010 saving
105 Jyotsna      5000 16/06/2012 saving
106 Mukesh      14000 20/12/2009 Current
107 Vishal 14500 30/11/2011 saving
108 Chirag 0     15/12/2012 Current
109 Arya 16000 14/12/2010 Current
110 Priya 130 16/11/2009 Saving
```

Prints 2 lines before and after the line containing pattern 'Priya'

```
root@MUM084:~/Desktop# grep -2 -i Priya bank.lst
```

```
108 Chirag 0     15/12/2012 Current
109 Arya 16000 14/12/2010 Current
110 Priya 130 16/11/2009 Saving
```

OR

```
root@MUM084:~/Desktop# grep -2 -i priya bank.lst
```

```
108 Chirag 0     15/12/2012 Current
109 Arya 16000 14/12/2010 Current
110 Priya 130 16/11/2009 Saving
```

Prints lines containing letter 'r'

```
root@MUM084:~/Desktop# grep r bank.lst
```

```
101 Aditya 0      14/11/2000 current
103 Naman0       20/08/2009 current
```

```
106 Mukesh      14000 20/12/2009 Current
108 Chirag 0     15/12/2012 Current
109 Arya 16000 14/12/2010 Current
110 Priya 130    16/11/2009 Saving
```

OR

```
root@MUM084:~/Desktop# grep "r" bank.lst
101 Aditya 0     14/11/2000 current
103 Naman0      20/08/2009 current
106 Mukesh      14000 20/12/2009 Current
108 Chirag 0     15/12/2012 Current
109 Arya 16000 14/12/2010 Current
110 Priya 130    16/11/2009 Saving
```

Prints lines containing letter 'd'

```
root@MUM084:~/Desktop# grep "d" bank.lst
101 Aditya 0     14/11/2000 current
```

Prints lines containing letter 'D'

```
root@MUM084:~/Desktop# grep "D" bank.lst
```

Display all records that have or do not have letter 'D'

```
root@MUM084:~/Desktop# grep "D*" bank.lst
101 Aditya 0     14/11/2000 current
102 Anil 10000 20/05/2011 saving
103 Naman0      20/08/2009 current
104 Ram 10000 15/08/2010 saving
105 Jyotsna      5000 16/06/2012 saving
106 Mukesh      14000 20/12/2009 Current
107 Vishal 14500 30/11/2011 saving
108 Chirag 0     15/12/2012 Current
109 Arya 16000 14/12/2010 Current
110 Priya 130    16/11/2009 Saving
```

Display all records that have or do not have letter 'b'

```
root@MUM084:~/Desktop# grep "b*" bank.lst
101 Aditya 0     14/11/2000 current
102 Anil 10000 20/05/2011 saving
103 Naman0      20/08/2009 current
104 Ram 10000 15/08/2010 saving
105 Jyotsna      5000 16/06/2012 saving
106 Mukesh      14000 20/12/2009 Current
107 Vishal 14500 30/11/2011 saving
108 Chirag 0     15/12/2012 Current
109 Arya 16000 14/12/2010 Current
110 Priya 130    16/11/2009 Saving
```

Display all records starting with 1

```
root@MUM084:~/Desktop# grep "^1" bank.lst
101 Aditya 0     14/11/2000 current
102 Anil 10000 20/05/2011 saving
```

```

103  Naman0      20/08/2009  current
104  Ram  10000  15/08/2010  saving
105  Jyotsna     5000  16/06/2012  saving
106  Mukesh      14000 20/12/2009  Current
107  Vishal 14500 30/11/2011  saving
108  Chirag 0     15/12/2012  Current
109  Arya  16000 14/12/2010  Current
110  Priya  130   16/11/2009  Saving

```

Display all records ending with 'nt'

```

root@MUM084:~/Desktop# grep "nt$" bank.lst
101  Aditya 0     14/11/2000  current
103  Naman0      20/08/2009  current
106  Mukesh      14000 20/12/2009  Current
108  Chirag 0     15/12/2012  Current
109  Arya  16000 14/12/2010  Current

```

Display all records starting with 11

```

root@MUM084:~/Desktop# grep "^11" bank.lst
110  Priya  130   16/11/2009  Saving

```

Display all records containing Current or current

```

root@MUM084:~/Desktop# grep [Cc]urrent bank.lst
101  Aditya 0     14/11/2000  current
103  Naman0      20/08/2009  current
106  Mukesh      14000 20/12/2009  Current
108  Chirag 0     15/12/2012  Current
109  Arya  16000 14/12/2010  Current

```

Display all records containing current without the file names on its left

```

root@MUM084:~/Desktop# grep -h current bank.lst
101  Aditya 0     14/11/2000  current
103  Naman0      20/08/2009  current

```

Display all records containing current from all .lst files with file names on its left.

```

root@MUM084:~/Desktop# grep -H current *.lst
bank.lst:101  Aditya 0     14/11/2000  current
bank.lst:103  Naman0      20/08/2009  current
clist.lst:101  Aditya 0     14/11/2000  current
clist.lst:103  Naman0      20/08/2009  current
newbank.lst:101  Aditya 0     14/11/2000  current
newbank.lst:103  Naman0      20/08/2009  current

```

Display all records containing pattern current. Five dots (.....) implies that any five characters having 'nt' at the end are displayed.

```

root@MUM084:~/Desktop# grep ".....nt" bank.lst
101  Aditya 0     14/11/2000  current
103  Naman0      20/08/2009  current
106  Mukesh      14000 20/12/2009  Current
108  Chirag 0     15/12/2012  Current
109  Arya  16000 14/12/2010  Current

```

```
root@MUM084:~/Desktop# grep ..ya bank.lst
101  Aditya 0      14/11/2000  current
109  Arya  16000 14/12/2010  Current
110  Priya  130   16/11/2009  Saving
```

```
root@MUM084:~/Desktop# grep ...ya bank.lst
101  Aditya 0      14/11/2000  current
109  Arya  16000 14/12/2010  Current
110  Priya  130   16/11/2009  Saving
```

```
root@MUM084:~/Desktop# grep ....ya bank.lst
101  Aditya 0      14/11/2000  current
109  Arya  16000 14/12/2010  Current
110  Priya  130   16/11/2009  Saving
```

```
root@MUM084:~/Desktop# grep .....ya bank.lst
101  Aditya 0      14/11/2000  current
109  Arya  16000 14/12/2010  Current
110  Priya  130   16/11/2009  Saving
```

```
root@MUM084:~/Desktop# grep .....ya bank.lst
101  Aditya 0      14/11/2000  current
109  Arya  16000 14/12/2010  Current
110  Priya  130   16/11/2009  Saving
```

```
root@MUM084:~/Desktop# grep .....ya bank.lst
101  Aditya 0      14/11/2000  current
110  Priya  130   16/11/2009  Saving
```

Display all records containing pattern di.ya (a letter between di and ya)

```
root@MUM084:~/Desktop# grep di.ya bank.lst
101  Aditya 0      14/11/2000  current
```

```
root@MUM084:~/Desktop# grep A.a bank.lst
```

Display all records containing pattern that starts with A, ends with a and inbetween contains any two letters.

```
root@MUM084:~/Desktop# grep A..a bank.lst
109  Arya  16000 14/12/2010  Current
```

```
root@MUM084:~/Desktop# grep A....a bank.lst
101  Aditya 0      14/11/2000  current
```

Display all records containing pattern that starts with A, ends with a and inbetween contains any number of characters.

```
root@MUM084:~/Desktop# grep A.*a bank.lst
101  Aditya 0      14/11/2000  current
102  Anil  10000 20/05/2011  saving
109  Arya  16000 14/12/2010  Current
```

Write the pattern to be searched in a file pattern.txt. Pass this file using -f option in grep command

from where pattern will be read and searched.

```
root@MUM084:~/Desktop# cat >pattern.txt
current
Saving
^d
root@MUM084:~/Desktop# grep -f pattern.txt bank.lst
```

```
root@MUM084:~/Desktop# grep -f pattern.txt bank.lst
101  Aditya 0      14/11/2000  current
103  Naman0      20/08/2009  current
110  Priya 130     16/11/2009  Saving
```

Append few records as shown below to bank.lst file

```
root@MUM084:~/Desktop# cat >> bank.lst
201  Bina 3000 11/03/2010  saving
202  Diya 4000 13/04/2018  Saving
203  Gargi 2000 21/01/2015  current
```

Check the contents of file.

```
root@MUM084:~/Desktop# cat bank.lst
101  Aditya 0      14/11/2000  current
102  Anil 10000 20/05/2011  saving
103  Naman0      20/08/2009  current
104  Ram 10000 15/08/2010  saving
105  Jyotsna      5000 16/06/2012  saving
106  Mukesh      14000 20/12/2009  Current
107  Vishal 14500 30/11/2011  saving
108  Chirag 0      15/12/2012  Current
109  Arya 16000 14/12/2010  Current
110  Priya 130     16/11/2009  Saving
201  Bina 3000 11/03/2010  saving
202  Diya 4000 13/04/2018  Saving
203  Gargi 2000 21/01/2015  current
```

List all records whose customer number starts with 2.

If following command is given, it will give wrong output.

```
root@MUM084:~/Desktop# grep 2.. bank.lst
101  Aditya 0      14/11/2000  current
102  Anil 10000 20/05/2011  saving
103  Naman0      20/08/2009  current
104  Ram 10000 15/08/2010  saving
105  Jyotsna      5000 16/06/2012  saving
106  Mukesh      14000 20/12/2009  Current
107  Vishal 14500 30/11/2011  saving
108  Chirag 0      15/12/2012  Current
109  Arya 16000 14/12/2010  Current
110  Priya 130     16/11/2009  Saving
201  Bina 3000 11/03/2010  saving
```

```
202 Diya 4000 13/04/2018 Saving
203 Gargi 2000 21/01/2015 current
```

Since customer number is the field with which record starts, we must give command that tells to search pattern at the beginning of the line.

```
root@MUM084:~/Desktop# grep ^2 bank.lst
201 Bina 3000 11/03/2010 saving
202 Diya 4000 13/04/2018 Saving
203 Gargi 2000 21/01/2015 current
```

To negate the above search, place ^ before the square bracket as shown below:

```
root@MUM084:~/Desktop# grep ^[^2] bank.lst

101 Aditya 0 14/11/2000 current
102 Anil 10000 20/05/2011 saving
103 Naman 0 20/08/2009 current
104 Ram 10000 15/08/2010 saving
105 Jyotsna 5000 16/06/2012 saving
106 Mukesh 14000 20/12/2009 Current
107 Vishal 14500 30/11/2011 saving
108 Chirag 0 15/12/2012 Current
109 Arya 16000 14/12/2010 Current
110 Priya 130 16/11/2009 Saving
```

Following command will list all those records in which 2 occurs anywhere in row.

```
root@MUM084:~/Desktop# grep [^2] bank.lst
101 Aditya 0 14/11/2000 current
102 Anil 10000 20/05/2011 saving
103 Naman 0 20/08/2009 current
104 Ram 10000 15/08/2010 saving
105 Jyotsna 5000 16/06/2012 saving
106 Mukesh 14000 20/12/2009 Current
107 Vishal 14500 30/11/2011 saving
108 Chirag 0 15/12/2012 Current
109 Arya 16000 14/12/2010 Current
110 Priya 130 16/11/2009 Saving
201 Bina 3000 11/03/2010 saving
202 Diya 4000 13/04/2018 Saving
203 Gargi 2000 21/01/2015 current
Hina 204 30000 14/02/2014 saving
Kalpana 205 4000 8/9/2007 Current
```

To print lines which do not start with digit in range 2 to 3

```
root@MUM084:~/Desktop# grep ^[^2-3] bank.lst
101 ADITYA 0 14/11/2000 CURRENT
102 Anil 10000 20/05/2011 saving
103 Naman 0 20/08/2009 current
104 Ram 10000 15/08/2010 saving
105 Jyotsna 5000 16/06/2012 saving
106 Mukesh 14000 20/12/2009 Current
107 Vishal 14500 30/11/2011 saving
```


108	Chirag	0	15/12/2012	Current
109	Arya	16000	14/12/2010	Current
110	Priya	130	16/11/2009	Saving
Hina	204	30000	14/02/2014	saving
Kalpana	205	4000	8/9/2007	Current

To print all records containing letters in the range H to K

```
root@MUM084:~/Desktop# grep [H-K] bank.lst
```

101	ADITYA	0	14/11/2000	CURRENT
105	Jyotsna	5000	16/06/2012	saving
Hina	204	30000	14/02/2014	saving
Kalpana	205	4000	8/9/2007	Current

To print lines beginning with letter in the range H to K

```
root@MUM084:~/Desktop# grep ^[H-K] bank.lst
```

Hina	204	30000	14/02/2014	saving
Kalpana	205	4000	8/9/2007	Current

To print lines which do not start with letters in range H to K

```
root@MUM084:~/Desktop# grep ^[^H-K] bank.lst
```

101	ADITYA	0	14/11/2000	CURRENT
102	Anil	10000	20/05/2011	saving
103	Naman	0	20/08/2009	current
104	Ram	10000	15/08/2010	saving
105	Jyotsna	5000	16/06/2012	saving
106	Mukesh	14000	20/12/2009	Current
107	Vishal	14500	30/11/2011	saving
108	Chirag	0	15/12/2012	Current
109	Arya	16000	14/12/2010	Current
110	Priya	130	16/11/2009	Saving
201	Bina	3000	11/03/2010	saving
202	Diya	4000	13/04/2018	Saving
203	Gargi	2000	21/01/2015	current

```
root@MUM084:~/Desktop#
```