

Setup:

1. First copy all files into your `$HOME/bin` directory
2. Change permissions on all the files `chmod u+x addtask filtertask rmlog formatdate println`
3. Modify `.bashrc` by adding an alias for `rmlog` `rm=rmlog`

```
#Custom Aliases
alias cls='clear'
alias rm='rmlog'
```

Screenshot

Add Task

Both Tags and Date

```
vagrant@ubuntu2210:~$ addtask -t "PDF PDF2" -d "02-03-10" This is a single line task with two tags and a date!
```

Single Line with Date

```
vagrant@ubuntu2210:~$ addtask -d "2021-03-20" This is a single line with date
```

Single Line With Tag

```
vagrant@ubuntu2210:~$ addtask -t "PDF PDF2" This is a single line task with two tags
```

Multiline with Date

```
vagrant@ubuntu2210:~$ addtask -d "March 5 2021"
Enter Task, You can stop anytime with ^D
This is the task for
March
5th
2021
```

Multiline with Tag

```
vagrant@ubuntu2210:~$ addtask -t "PDF"
Enter Task, You can stop anytime with ^D
This is showing
off
multi
line
but with a task
```

How log file looks like

```
This is the task for\nMarch\n5th\n2021\n, March 5 2021,\nThis is showing\noff\nmulti\nline\nbut with a task\n,,{PDF}\nThis is a single line task with two tags,,{PDF} {PDF2}\nThis is a single line task with two tags and a date!,02-03-10,{PDF} {PDF2}\nThis is a single line with date,2021-03-20,
```

Filter Task

Just running function

```
vagrant@ubuntu2210:~$ filtertask
```

```
-----
Task: This is the task for
March
5th
2021
  Date: Mar 05, 2021 Tags:
-----
-----
Task: This is showing
off
multi
line
but with a task
  Date:  Tags: {PDF}
-----
-----
Task: This is a single line task with two tags Date:  Tags: {PDF} {PDF2}
-----
-----
Task: This is a single line task with two tags and a date! Date: Mar 10, 2002 Tags: {PDF} {PDF2}
-----
-----
Task: This is a single line with date Date: Mar 20, 2021 Tags:
-----
(END)
```

Searching for note with tag "PDF"

```
vagrant@ubuntu2210:~$ filtertask -t PDF
```

```

-----
Task: This is showing
off
multi
line
but with a task
  Date:  Tags: {PDF}
-----
Task: This is a single line task with two tags Date:  Tags: {PDF} {PDF2}
-----
Task: This is a single line task with two tags and a date! Date: Mar 10, 2002 Tags: {PDF} {PDF2}
-----
(END)

```

Searching with both a tag and Date specified

```
vagrant@ubuntu2210:~$ filtertask -t PDF -d "march 10 2002"
```

```

-----
Task: This is a single line task with two tags and a date! Date: Mar 10, 2002 Tags: {PDF} {PDF2}
-----
(END)

```

Date range

```
vagrant@ubuntu2210:~$ filtertask -r "march 1 2021,march 31 2021"
```

```

-----
Task: This is the task for
March
5th
2021
  Date: Mar 05, 2021 Tags:
-----
Task: This is a single line with date Date: Mar 20, 2021 Tags:
-----
(END)

```

RMLLog

Note this requires the alias set up properly with the alias of `rm=rmlog`

Command Ran (rm is aliased to rmlog)

```
vagrant@ubuntu2210:~$ touch 1 2 3 4 5
vagrant@ubuntu2210:~$ rm 1 2 3 4 5
```

Log File Content

```
2023-03-03 19:10:20 : vagrant : /home/vagrant/1 : File
2023-03-03 19:10:20 : vagrant : /home/vagrant/2 : File
2023-03-03 19:10:20 : vagrant : /home/vagrant/3 : File
2023-03-03 19:10:20 : vagrant : /home/vagrant/4 : File
2023-03-03 19:10:20 : vagrant : /home/vagrant/5 : File
```

Command Ran (rm is aliased to rmlog)

```
vagrant@ubuntu2210:~$ mkdir 12345
vagrant@ubuntu2210:~$ rm 12345
```

Log File Content

```
2023-03-03 19:10:20 : vagrant : /home/vagrant/1 : File
2023-03-03 19:10:20 : vagrant : /home/vagrant/2 : File
2023-03-03 19:10:20 : vagrant : /home/vagrant/3 : File
2023-03-03 19:10:20 : vagrant : /home/vagrant/4 : File
2023-03-03 19:10:20 : vagrant : /home/vagrant/5 : File
2023-03-03 19:11:08 : vagrant : /home/vagrant/12345 : Directory
~
```

Println

In this example I have 2 files with text inside them to show how it works, however you can use it with any file

```
vagrant@ubuntu2210:~/assign1$ println test.txt test2.txt
File Name: test.txt
File Owner: vagrant
-----
1: line 1
2: line 2
3: line 3
4: line 4
5: line 5
6: line 6 but still part of 6
7: line 7
File Name: test2.txt
File Owner: vagrant
-----
1: test 2
2: line 1
3: line 2
4: line 3
5: line 6 adsasd

vagrant@ubuntu2210:~/assign1$ |
```

Notes

Add Task

When inputting a date for you date for the task if you are typing it as `Feb 3,2000`
enter as `Feb 3 2000`

Filter Task

When inputting a date for you date for the task if you are typing it as `Feb 3,2000`
enter as `Feb 3 2000`