

Redirection of Pipes

1. Create a file name `error_log` in your current directory. Suppose you do not have any file named `aa11` in your current directory.

How can you redirect the error message to the file `error_log` when we apply the command "`wc -l aa11`" ?

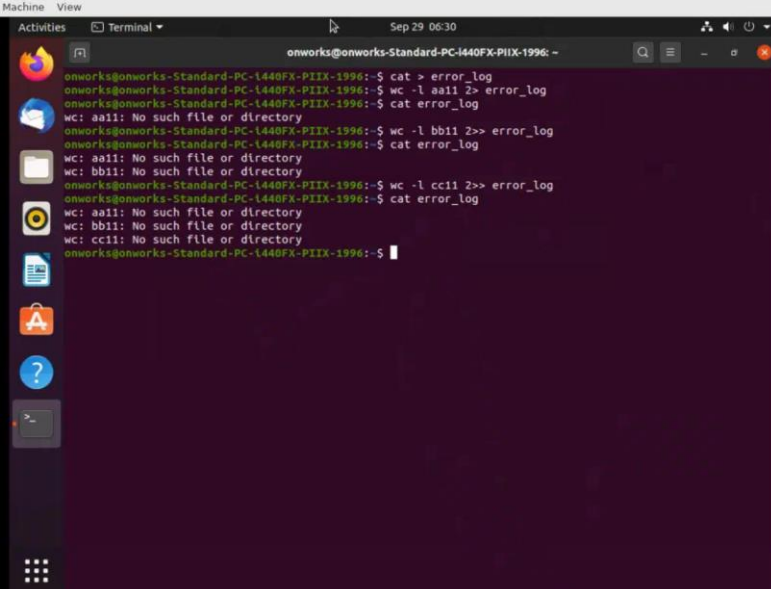
How can you ensure that all the error log are appended to the `error_log` file?

#commads in terminal

```
cat > error_log
wc -l aa11 2> error_log
cat error_log
```

```
wc -l bb11 2>> error_log
cat error_log
```

```
wc -l cc11 2>> error_log
cat error_log
```



The screenshot shows a terminal window titled "Machine View" with a dark background. The terminal displays the following commands and their outputs:

```
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ cat > error_log
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ wc -l aa11 2> error_log
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ cat error_log
wc: aa11: No such file or directory
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ wc -l bb11 2>> error_log
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ cat error_log
wc: aa11: No such file or directory
wc: bb11: No such file or directory
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ wc -l cc11 2>> error_log
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ cat error_log
wc: aa11: No such file or directory
wc: bb11: No such file or directory
wc: cc11: No such file or directory
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$
```

2. Create files named `test1`, `test2`, `testa`, `testb`

How can you count the number of files starting with `test` and then having only one digit in their name using only a single line command?

#commands in terminal

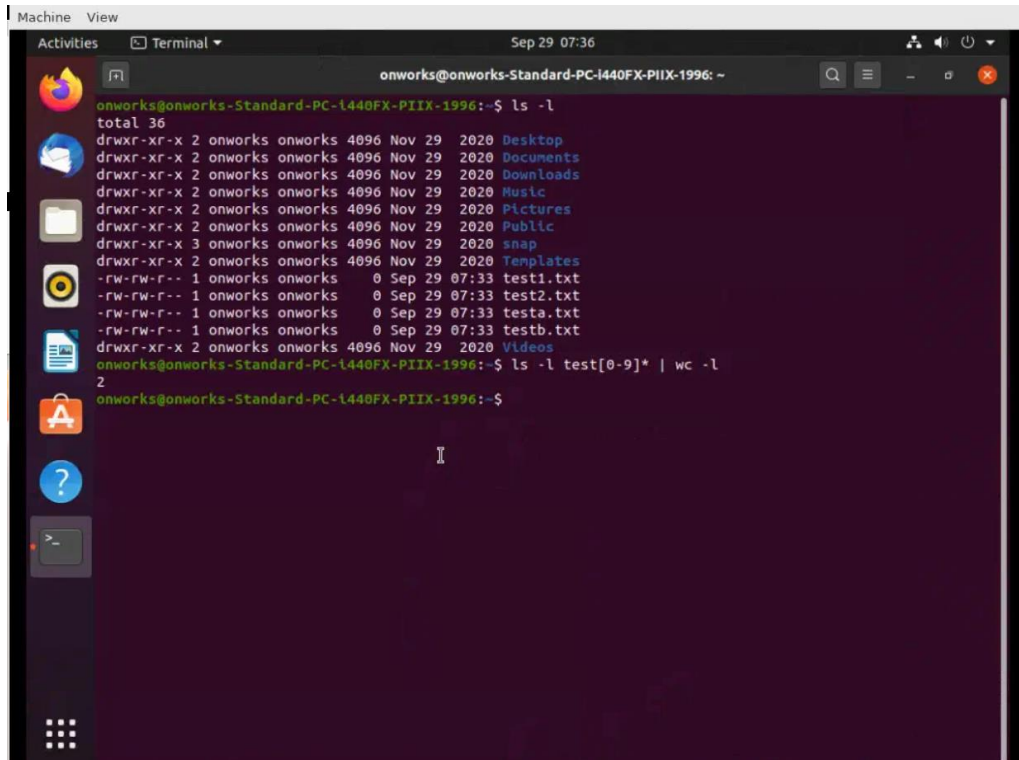
```
touch test1
```

```
touch test2
```

```
touch testa
```

```
touch testb
```

```
ls -l test[0-9]* | wc -l
```



The screenshot shows a terminal window titled "Machine View" with a date and time of "Sep 29 07:36". The terminal prompt is "onworks@onworks-Standard-PC-l440FX-PIIX-1996: ~". The user has entered the command "ls -l", which displays a long listing of files and directories. The output shows the total size of 36, followed by a list of directories (Desktop, Documents, Downloads, Music, Pictures, Public, snap, Templates, Videos) and four text files (test1.txt, test2.txt, testa.txt, testb.txt) created on Sep 29 07:33. The user then enters the command "ls -l test[0-9]* | wc -l", which outputs the number "2", indicating that there are two files matching the pattern test[0-9]*.

```
onworks@onworks-Standard-PC-l440FX-PIIX-1996: ~  
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ ls -l  
total 36  
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Desktop  
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Documents  
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Downloads  
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Music  
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Pictures  
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Public  
drwxr-xr-x 3 onworks onworks 4096 Nov 29 2020 snap  
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Templates  
-rw-rw-r-- 1 onworks onworks 0 Sep 29 07:33 test1.txt  
-rw-rw-r-- 1 onworks onworks 0 Sep 29 07:33 test2.txt  
-rw-rw-r-- 1 onworks onworks 0 Sep 29 07:33 testa.txt  
-rw-rw-r-- 1 onworks onworks 0 Sep 29 07:33 testb.txt  
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Videos  
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$ ls -l test[0-9]* | wc -l  
2  
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~$
```