

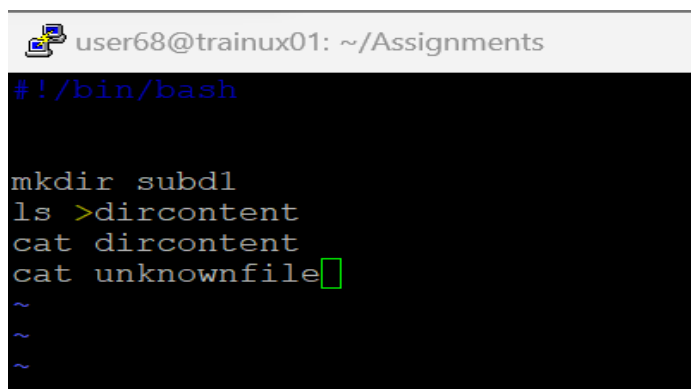
## Linux Environment Variable Assignment

1. Create a script named “myscript” in current directory to do the following.

- a) create a dir named “subdl” in current directory
- b) create a file named “dircontent” with contents of the current directory
- c) display the contents of the file “dircontent”
- d) display the contents of a non existing file named “unknownfile”

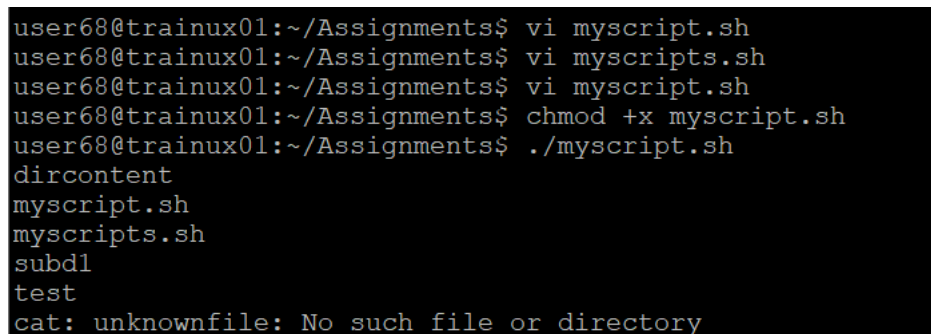
**Ans:** vi myscript

- a) mkdir subdl
- b) ls > dircontent
- c) cat dircontent
- d) cat unknownfile



```
user68@trainux01: ~/Assignments
#!/bin/bash

mkdir subdl
ls > dircontent
cat dircontent
cat unknownfile
```



```
user68@trainux01:~/Assignments$ vi myscript.sh
user68@trainux01:~/Assignments$ vi myscripts.sh
user68@trainux01:~/Assignments$ vi myscript.sh
user68@trainux01:~/Assignments$ chmod +x myscript.sh
user68@trainux01:~/Assignments$ ./myscript.sh
dircontent
myscript.sh
myscripts.sh
subdl
test
cat: unknownfile: No such file or directory
```

2. Run the script and validate the output in following cases

- a) Redirect only the stdout to an o/p file named stdout.txt
- b) Redirect only the stderr to an o/p file named stderr.txt
- c) Redirect both stdout and stderr to an o/p file named stdall.txt
- d) Display all o/p and error and also redirect both stdout and stderr to an o/p file named stdall.txt

Ans: The output cases are:

`./myscript >stdout.txt`

`./myscript >stderr.txt`

`./myscripts > stdall.txt > stderr.txt >& stdout.txt`

`./myscripts > >(tee stdall.txt) > stderr.txt>&stdout.txt`

```
user68@trainux01:~/Assignments$ ./myscript >stdout.txt
-bash: ./myscript: No such file or directory
user68@trainux01:~/Assignments$ ./myscript >stderr.txt
-bash: ./myscript: No such file or directory
user68@trainux01:~/Assignments$ ll
total 28
drwxrwxr-x  4 user68 user68 4096 Nov  5 20:27 ./
drwx----- 19 user68 user68 4096 Nov  5 20:22 ../
-rw-rw-r--  1 user68 user68   47 Nov  5 20:23 dircontent
-rwxrwxr-x  1 user68 user68   72 Nov  5 20:22 myscript.sh*
-rwxrwxr-x  1 user68 user68  128 Nov  5 20:22 myscripts.sh*
-rw-rw-r--  1 user68 user68    0 Nov  5 20:27 stderr.txt
-rw-rw-r--  1 user68 user68    0 Nov  5 20:26 stdout.txt
drwxrwxr-x  2 user68 user68 4096 Nov  5 20:23 subdl/
drwxrwxr-x  2 user68 user68 4096 Nov  5 17:15 test/
user68@trainux01:~/Assignments$ ./myscripts > stdall.txt > stderr.txt > & std
out.txt
-bash: syntax error near unexpected token `&'
user68@trainux01:~/Assignments$ ./myscripts > stdall.txt > stderr.txt >& stdo
ut.txt
user68@trainux01:~/Assignments$ ./myscripts >> (tee stdall.txt) > stderr.txt
>&stdout.txt
-bash: syntax error near unexpected token `('
user68@trainux01:~/Assignments$ ./myscripts>>(tee stdall.txt) > stderr.txt>&
stdout.txt
-bash: syntax error near unexpected token `('
user68@trainux01:~/Assignments$ ./myscripts > >(tee stdall.txt) > stderr.txt
>&stdout.txt
user68@trainux01:~/Assignments$
```

3. Redirect the output of command below using pipe (|) to wc and get the output .

Ans: `ls -l|wc`

```
user68@trainux01:~/Assignments$ ls -l|wc
  10    83   506
user68@trainux01:~/Assignments$
```