Linux Environment Variable Assignment

1. Create a script named "myscript" in current directory to do the following.
   - a) create a dir named "subd1" 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"

   vi myscripts

   mkdir subd1

   ls > dircontent

   cat dircontent

   cat unknownfile

```
 1 #!/bin/bash
 2
 3 mkdir subd1
 4 ls > dircontent
 5 cat dircontent
 6 cat unknownfile
 7
 8
 9
10
~
```

```
drwxrwxr-x   3 user72 user72 4096 Nov   5 17:46 ./
drwx------  20 user72 user72 4096 Nov   5 17:46 ../
-rw-rw-r--   1 user72 user72  274 Nov   5 16:04 chai.text
-rw-rw-r--   1 user72 user72  405 Nov   5 17:46 chai.txt
-rwxrwxr-x   1 user72 user72   95 Nov   5 15:19 myscripts.sh*
drwxrwxr-x   2 user72 user72 4096 Nov   5 15:18 test/
user72@trainux01:~/Assignments$ cd test
user72@trainux01:~/Assignments/test$ vi myscripts
user72@trainux01:~/Assignments/test$ chmod +x myscripts
user72@trainux01:~/Assignments/test$ ./myscripts
dircontent
myscripts
subd1
cat: unknownfile: No such file or directory
user72@trainux01:~/Assignments/test$
```

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: ./myscripts > stdout.txt

./myscripts **>** stderr.txt

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

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

```
user72@trainux01:~/Assignments/test$ ./myscripts > stdout.txt
mkdir: cannot create directory 'subd1': File exists
cat: unknownfile: No such file or directory
user72@trainux01:~/Assignments/test$ ./myscripts > stderr.txt
mkdir: cannot create directory 'subd1': File exists
cat: unknownfile: No such file or directory
user72@trainux01:~/Assignments/test$ ll
total 28
drwxrwxr-x 3 user72 user72 4096 Nov  5 18:00 ./
drwxrwxr-x 3 user72 user72 4096 Nov  5 17:46 ../
-rw-rw-r-- 1 user72 user72   49 Nov  5 18:00 dircontent
-rwxrwxr-x 1 user72 user72   76 Nov  5 17:56 myscripts*
-rw-rw-r-- 1 user72 user72   49 Nov  5 18:00 stderr.txt
-rw-rw-r-- 1 user72 user72   38 Nov  5 18:00 stdout.txt
drwxrwxr-x 2 user72 user72 4096 Nov  5 17:54 subd1/
user72@trainux01:~/Assignments/test$ ./myscripts > stdall.txt stderr.txt>&stdout.txt
user72@trainux01:~/Assignments/test$ ./myscripts > > (tee stdall.txt) stderr.txt>&stdout.txt
-bash: syntax error near unexpected token `>'
user72@trainux01:~/Assignments/test$ ./myscripts > >(tee stdall.txt) stderr.txt>&stdout.txt
```

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

   Ans: ls -l |wc

```
user72@trainux01:~/Assignments/test$ ./myscripts > >(tee stdall.txt) stderr.txt>&stdout.txt
user72@trainux01:~/Assignments/test$ ls -l | wc
      7      56     339
```