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
~
```

```
user64@trainux01:~/Assignment$ vi myscripts.sh
user64@trainux01:~/Assignment$ chmod +x myscripts.sh
user64@trainux01:~/Assignment$ ./myscripts.sh
mkdir: cannot create directory ‘subd1’: File exists
Trishap.txt
ash.txt
dircontent
myscript.sh
myscripts.sh
stdall.txt
stderr.txt
stdout.txt
subd1
test
trishap.txt
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: ./myscripts > stdout.txt
./myscripts > stderr.txt
./myscripts > stdall.txt > stderr.txt **>&** stdout.txt
./myscripts > > (tee stdall.txt) > stderr.txt **>&** stdout.txt

```
cat: unknownfile: No such file or directory
user64@trainux01:~/Assignment$ ./myscripts >stdout.txt
-bash: ./myscripts: No such file or directory
user64@trainux01:~/Assignment$ ./myscripts >stderr.txt
-bash: ./myscripts: No such file or directory
user64@trainux01:~/Assignment$ ll
total 44
drwxrwxr-x  4 user64 user64  4096 Nov  5 18:24 ./
drwx------ 17 user64 user64  4096 Nov  5 18:24 ../
-rw-r--r--  1 user64 user64 12288 Nov  5 16:36 .trishap.txt.swp
-rw-rw-r--  1 user64 user64     0 Nov  5 18:03 Trishap.txt
-rw-rw-r--  1 user64 user64     0 Nov  5 18:08 ash.txt
-rw-rw-r--  1 user64 user64   112 Nov  5 18:25 dircontent
-rwxrwxr-x  1 user64 user64    95 Nov  5 15:41 myscript.sh*
-rwxrwxr-x  1 user64 user64    75 Nov  5 18:24 myscripts.sh*
-rw-rw-r--  1 user64 user64     0 Nov  5 15:59 stdall.txt
-rw-rw-r--  1 user64 user64     0 Nov  5 18:36 stderr.txt
-rw-rw-r--  1 user64 user64     0 Nov  5 18:35 stdout.txt
drwxrwxr-x  2 user64 user64  4096 Nov  5 15:42 subdl/
drwxrwxr-x  2 user64 user64  4096 Nov  5 18:11 test/
-rw-rw-r--  1 user64 user64   269 Nov  5 18:05 trishap.txt
user64@trainux01:~/Assignment$ ./myscripts > stdall.txt stderr.txt>&stdout.txt
user64@trainux01:~/Assignment$ ./myscripts > > (tee stdall.txt) stderr.txt>&stdout.txt
-bash: syntax error near unexpected token `>'
user64@trainux01:~/Assignment$ ./myscripts > >(tee stdall.txt) stderr.txt>&stdout.txt
user64@trainux01:~/Assignment$
```

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

   Ans: ls -l |wc

```
user64@trainux01:~/Assignment$ ./myscripts > >(tee stdall.txt) stderr.txt>&stdout.txt
user64@trainux01:~/Assignment$ ls -l|wc
     12     101     616
user64@trainux01:~/Assignment$ s
```