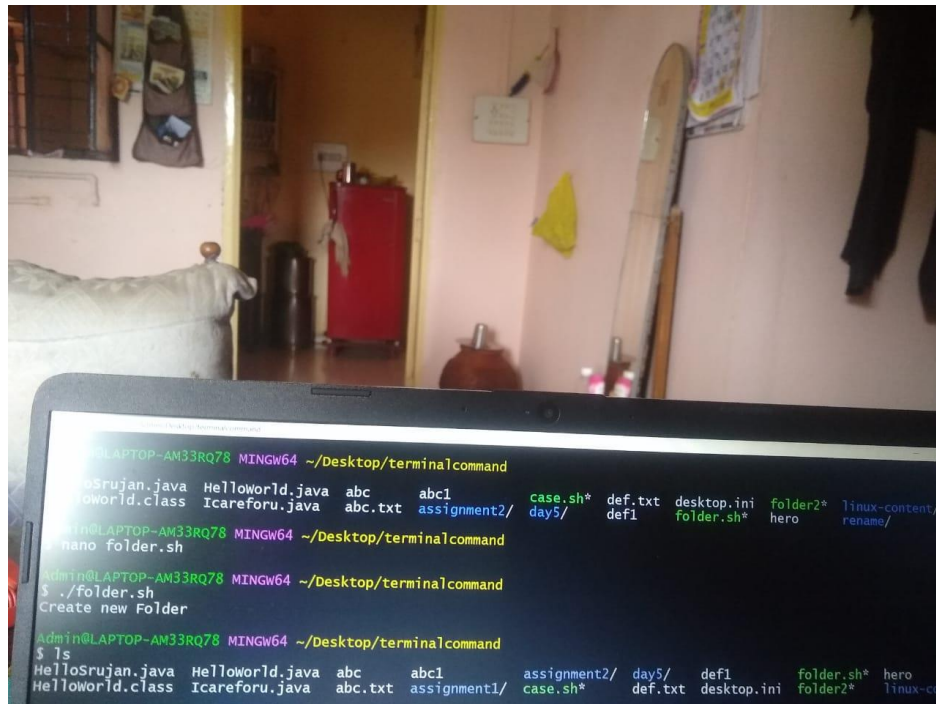


## ✓ ASSIGNMENT DAY3

Que 1). Check if a folder exists or not. If it's not present, create it.

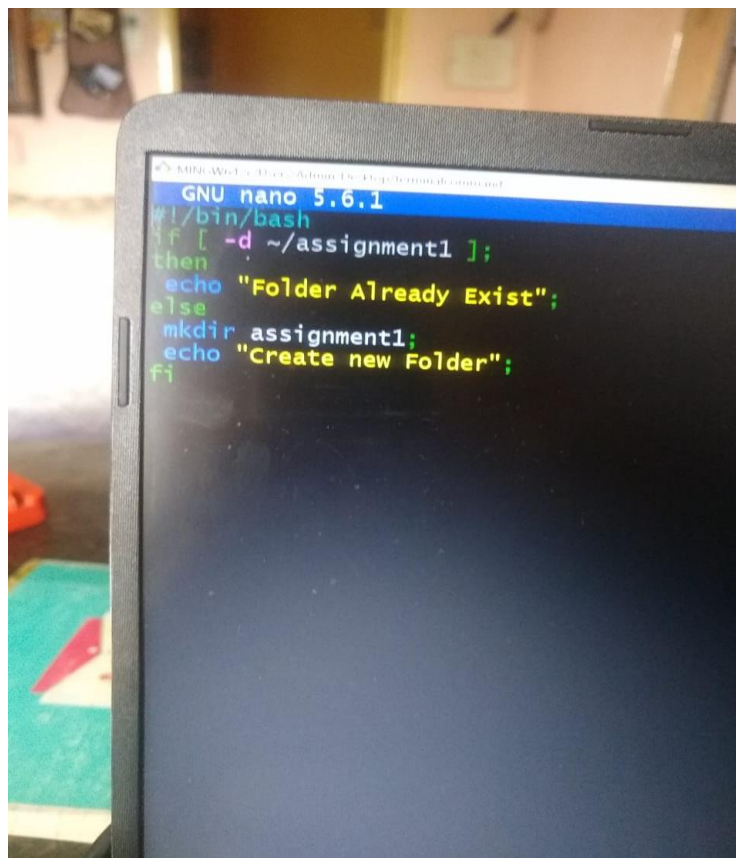


```
Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/terminalcommand
ls
HelloWorld.class  HelloWorld.java  abc  abc1  assignment2/  case.sh*  def.txt  desktop.ini  folder2*  hero  linux-content/
Icareforu.java  abc.txt  assignment1/  case.sh*  def.txt  desktop.ini  folder2*  hero  linux-con

Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/terminalcommand
nano folder.sh

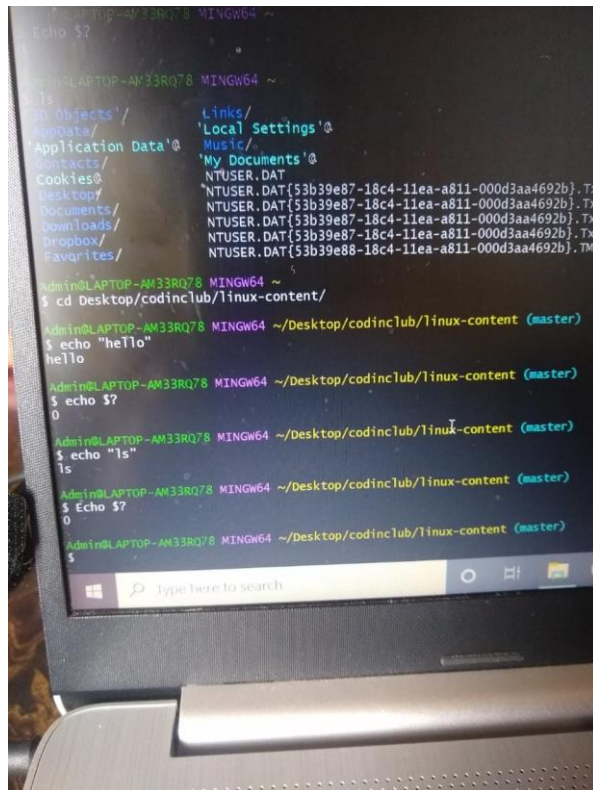
Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/terminalcommand
$ ./folder.sh
Create new Folder

Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/terminalcommand
$ ls
HelloWorld.class  HelloWorld.java  abc  abc1  assignment2/  case.sh*  def.txt  desktop.ini  folder.sh*  hero  linux-con
```



```
GNU nano 5.6.1
#!/bin/bash
if [ -d ~/assignment1 ];
then
    echo "Folder Already Exist";
else
    mkdir assignment1;
    echo "Create new Folder";
fi
```

Que 2). Execute command "hello" and "ls" and check its execution status and print whether command executed successful or not.



The screenshot shows a Windows terminal window with a dark background. The prompt is 'Admin@LAPTOP-AM33RQ78 MINGW64 ~'. The user enters 'ls' and the output shows a directory listing of files and folders. Then, the user enters 'cd Desktop/codincub/linux-content/' and the prompt changes to 'Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codincub/linux-content (master)'. The user then enters 'echo "hello"' and the output is 'hello'. Finally, the user enters 'echo \$?' and the output is '0', indicating successful execution. The terminal window has a Windows taskbar at the bottom with the search bar.

```
Admin@LAPTOP-AM33RQ78 MINGW64 ~  
$ ls  
Application Data/  Links/  Local Settings/  Music/  My Documents/  NTUSER.DAT  
Desktop/  Documents/  Downloads/  Dropbox/  Favorites/  NTUSER.DAT{53b39e87-18c4-11ea-a811-000d3aa4692b}.Tx  
NTUSER.DAT{53b39e87-18c4-11ea-a811-000d3aa4692b}.Tx  
NTUSER.DAT{53b39e87-18c4-11ea-a811-000d3aa4692b}.Tx  
NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TM.  
Admin@LAPTOP-AM33RQ78 MINGW64 ~  
$ cd Desktop/codincub/linux-content/  
Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codincub/linux-content (master)  
$ echo "hello"  
hello  
Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codincub/linux-content (master)  
$ echo $?  
0  
Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codincub/linux-content (master)  
$ echo "ls"  
ls  
Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codincub/linux-content (master)  
$ Echo $?  
0  
Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codincub/linux-content (master)  
$
```

Que 3). Data analysis / manipulation (Awk).

```
MINGW64~/c/Users/Admin/Desktop/codincub/linux-content
AdminLAPTOP-AM33RQ78 MINGW64 ~/Desktop/codincub/linux-content (master)
$ cat data.csv | awk '{ if ($4 > 10000) { print $2,$4 } }'
EmployeeName BasePay
NATHANIEL 167411
GARY 155966
ALBERT 212739
CHRISTOPHER 77916
PATRICK 134401
DAVID 118602
ALSON 92492
DAVID 256576
JOANNE 285262
PATRICIA 99722
EDWARD 294580

AdminLAPTOP-AM33RQ78 MINGW64 ~/Desktop/codincub/linux-content (master)
$ cat data.csv | awk '{ print $2 " " $7 }'
EmployeeName TotalPay
NATHANIEL 567595
GARY 538909
ALBERT 335279
CHRISTOPHER 332343
PATRICK 326373
DAVID 316285
ALSON 315981
DAVID 307899
JOANNE 302377
PATRICIA 297608
EDWARD 294580

AdminLAPTOP-AM33RQ78 MINGW64 ~/Desktop/codincub/linux-content (master)
$ cat data.csv | awk '{ print $2 " " $7 }'
EmployeeName TotalPay
NATHANIEL 567595
GARY 538909
ALBERT 335279
CHRISTOPHER 332343
PATRICK 326373
DAVID 316285
ALSON 315981
DAVID 307899
JOANNE 302377
PATRICIA 297608
EDWARD 294580

AdminLAPTOP-AM33RQ78 MINGW64 ~/Desktop/codincub/linux-content (master)
$ cat data.csv | grep CAPTAIN
2 GARY CAPTAIN 155966 245131 137811 538909 538909
3 ALBERT CAPTAIN 212739 106088 16452 335279 335279
12 PATRICIA CAPTAIN 99722 87082 110804 297608 297608

AdminLAPTOP-AM33RQ78 MINGW64 ~/Desktop/codincub/linux-content (master)
$ cat data.csv | grep -i CAPTAIN
2 GARY CAPTAIN 155966 245131 137811 538909 538909
3 ALBERT CAPTAIN 212739 106088 16452 335279 335279
12 PATRICIA CAPTAIN 99722 87082 110804 297608 297608
```

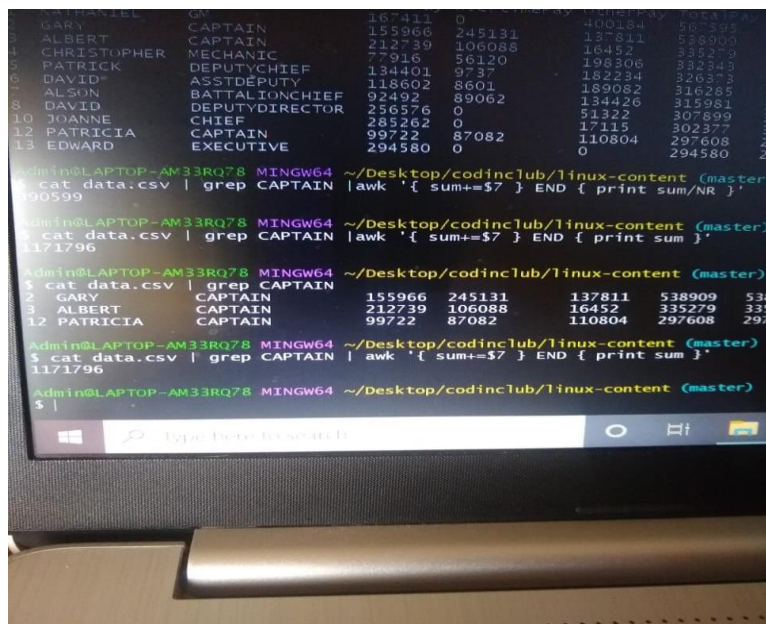
```
awk: cmd. line:1: { if($5 > 7000 } if ($5 < 10000) { print $2,$5 }
awk: cmd. line:1: ^ syntax error
awk: cmd. line:1: { if($5 > 7000 } if ($5 < 10000) { print $2,$5 }
awk: cmd. line:1: ^ syntax error
awk: cmd. line:1: { if($5 > 7000 } if ($5 < 10000) { print $2,$5 }
awk: cmd. line:1: ^ syntax error
awk: cmd. line:1: { if($5 > 7000 } if ($5 < 10000) { print $2,$5 }
awk: cmd. line:1: ^ syntax error
awk: cmd. line:1: { if($5 > 7000 } if ($5 < 10000) { print $2,$5 }
awk: cmd. line:1: ^ syntax error
AdminLAPTOP-AM33RQ78 MINGW64 ~/Desktop/codincub/linux-content (master)
$ cat data.csv | awk '{ if($5 > 7000 ) if ($5 < 10000) { print $2,$5 } }'
PATRICK 9737
DAVID 8601

AdminLAPTOP-AM33RQ78 MINGW64 ~/Desktop/codincub/linux-content (master)
$ cat data.csv | awk '{ if($5 > 7000 ) if ($5 < 10000) { print $2,$5 } }'
PATRICK 9737
DAVID 8601

AdminLAPTOP-AM33RQ78 MINGW64 ~/Desktop/codincub/linux-content (master)
$ cat data.csv | awk '{ sum+=$4 } END { print sum/NR }'
157972

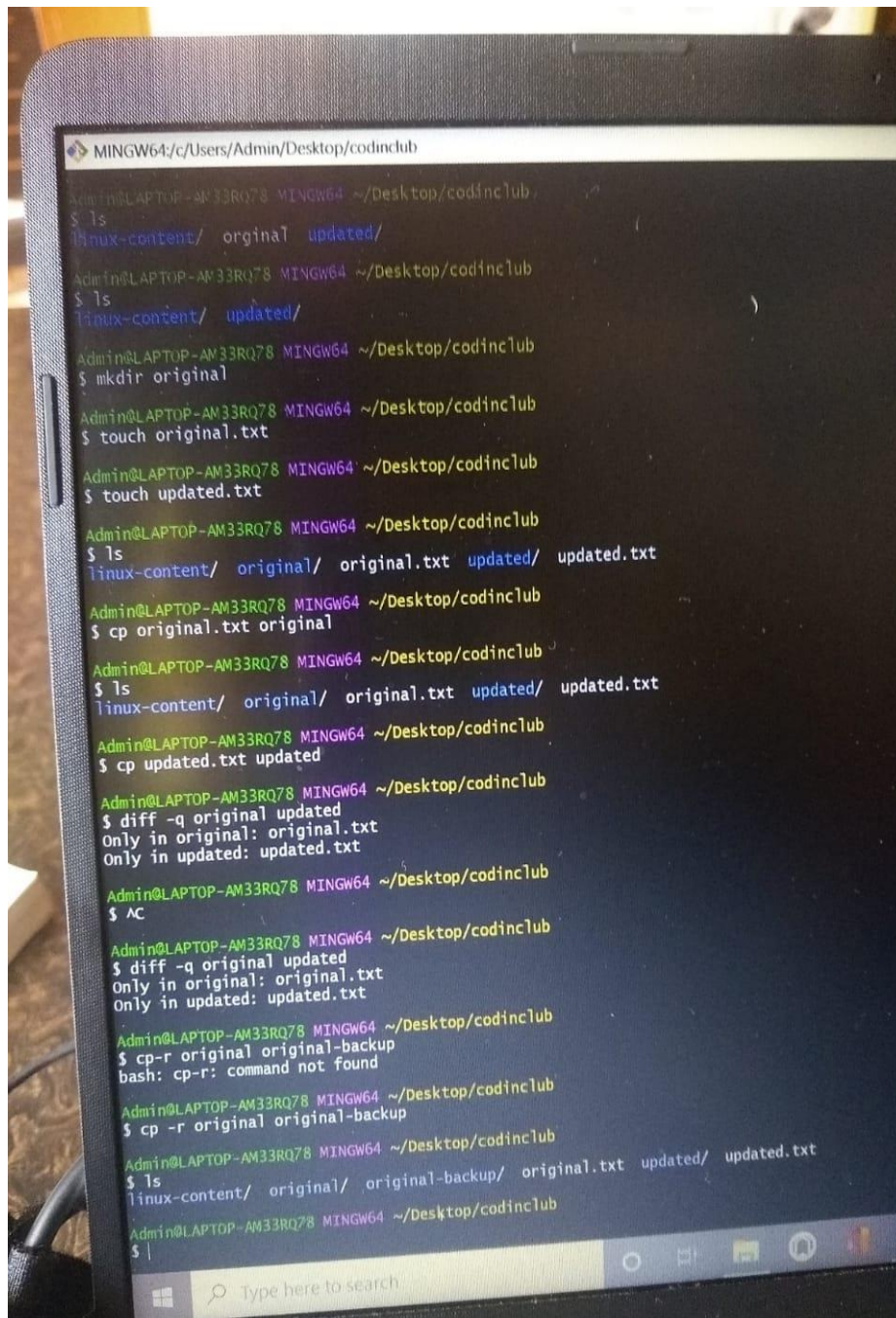
AdminLAPTOP-AM33RQ78 MINGW64 ~/Desktop/codincub/linux-content (master)
$ cat data.csv | awk '{ sum+=$4 } END { print sum/NR }'
157972

AdminLAPTOP-AM33RQ78 MINGW64 ~/Desktop/codincub/linux-content (master)
$
```





Que 4). Find the difference between original file and the updated file.  
Apply changes to the original file.



```
Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codinclub
$ ls
linux-content/  original  updated/

Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codinclub
$ ls
linux-content/  updated/

Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codinclub
$ mkdir original

Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codinclub
$ touch original.txt

Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codinclub
$ touch updated.txt

Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codinclub
$ ls
linux-content/  original/  original.txt  updated/  updated.txt

Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codinclub
$ cp original.txt original

Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codinclub
$ ls
linux-content/  original/  original.txt  updated/  updated.txt

Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codinclub
$ cp updated.txt updated

Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codinclub
$ diff -q original updated
Only in original: original.txt
Only in updated: updated.txt

Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codinclub
$ AC

Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codinclub
$ diff -q original updated
Only in original: original.txt
Only in updated: updated.txt

Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codinclub
$ cp -r original original-backup
bash: cp -r: command not found

Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codinclub
$ cp -r original original-backup

Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codinclub
$ ls
linux-content/  original/  original-backup/  original.txt  updated/  updated.txt

Admin@LAPTOP-AM33RQ78 MINGW64 ~/Desktop/codinclub
$ |
```