ShellScriptingAssignment Answers

Assignment1)

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers

$ vi ass1.sh

Shellscriptcode:-

```
if[-f"myfile.txt"]

then

echo"found"

else

echo"notfound"fi
```

endofshellscriptcode

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers

$ ls

ass1.shgitAssignment_abhijithsai.pdfmyfile.txtmySQL_abhijithsai.docx

hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers

$shass1.sh

found

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers

$rmmyfile.txt

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers

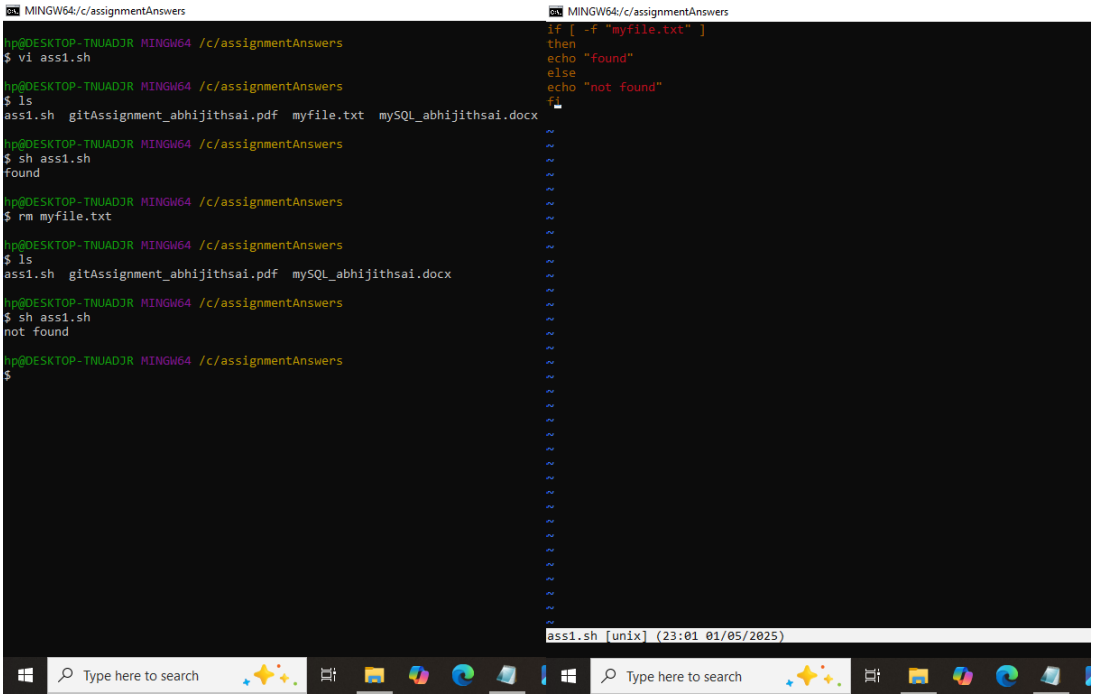
$ ls

ass1.shgitAssignment_abhijithsai.pdfmySQL_abhijithsai.docx

hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers

$shass1.sh

not found


MINGW64:/c/assignmentAnswers
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ vi ass1.sh
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ ls
ass1.sh gitAssignment_abhijithsai.pdf myfile.txt mySQL_abhijithsai.docx
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ sh ass1.sh
found
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ rm myfile.txt
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ ls
ass1.sh gitAssignment_abhijithsai.pdf mySQL_abhijithsai.docx
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ sh ass1.sh
not found
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$
Type here to search
MINGW64:/c/assignmentAnswers
if [-f "myfile.txt"]
then
echo "found"
else
echo "not found"
fi
ass1.sh [unix] (23:01 01/05/2025)
Type here to search

Assignment2)

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers

$vi evenOrOdd.sh

Shellscript :-

```
whileecho"enternumber"d
o
    readnum1
    if[$num1-eq0] then
        exit
    else
        rem=$((num1%2))
        if [ $rem -eq 0 ]
        then
            echo"even"
        else
            echo"odd"
        fi
    fi
done
```

Shellscript end

hp@DESKTOP-TNUADJRMINGW

64 /c/assignmentAnswers

$shevenOrOdd.sh

enter number

10

even

enternumber

20

even

enternumber

15

odd

enternumber

22

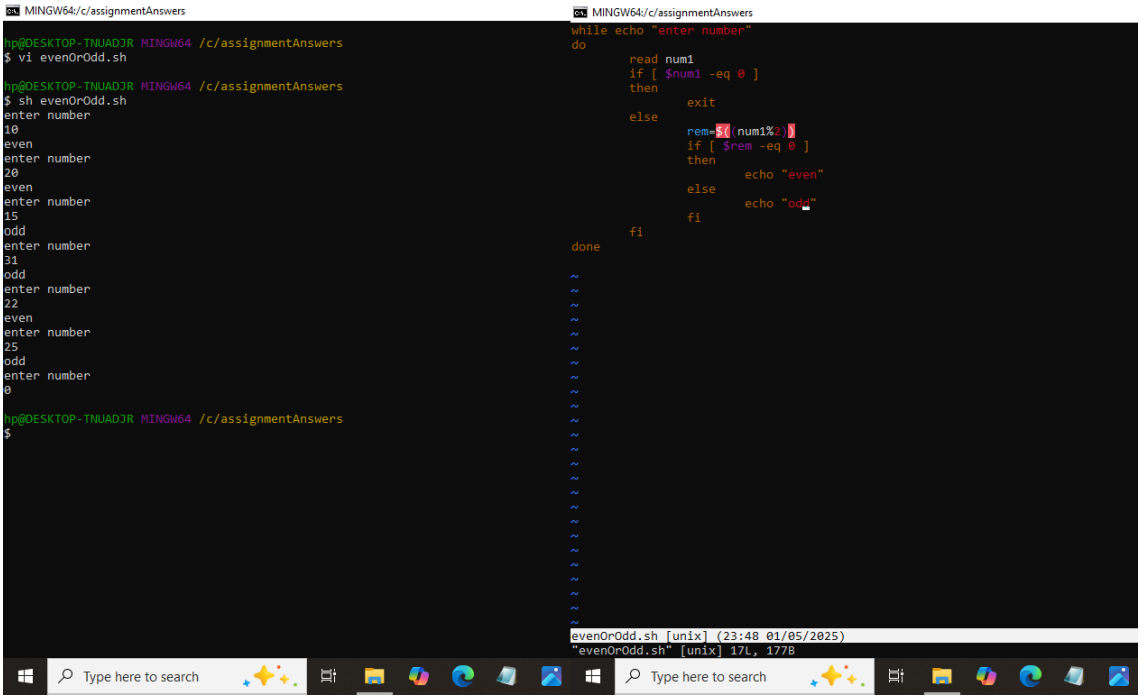
even

enternumber

0

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers

$



Assignment3)

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers

$viprintNoOfLines.sh

Shellscript):

wc-l $1

endofshellscript

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers

$ ls

'~$SQL_abhijithsai.docx'ass1.sh gitAssignment_abhijithsai.pdfmySQL_abhijithsai.docx

'~WRL2752.tmp' evenOrOdd.shhello.txt printNoOfLines.sh

hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers

$ cat hello.txt

helloabhijithsai

goodmorninghaveaniceday

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers

$shprintNoOfLines.shhello.txt 2

hello.txt

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers

$cat>newFile.txt a

b

c

d

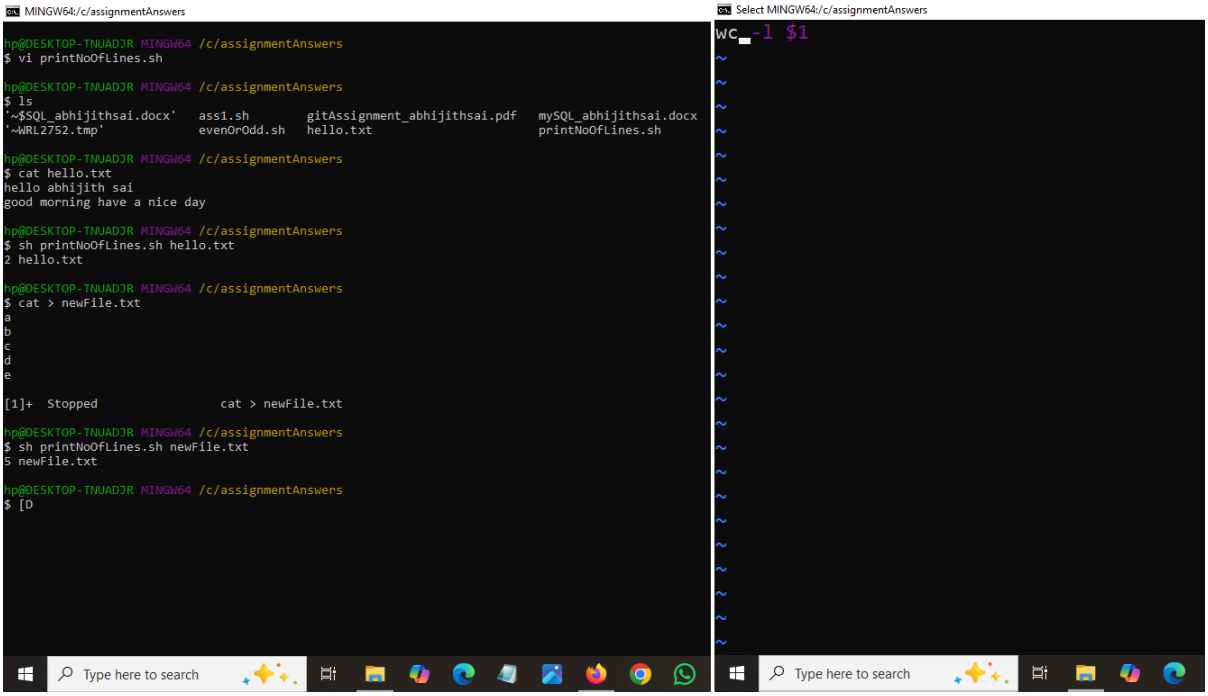
e

[1]+Stopped cat>newFile.txt

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers

$shprintNoOfLines.shnewFile.txt 5

newFile.txt


MINGW64:/c/assignmentAnswers
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ vi printNoOfLines.sh
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ ls
'~$SQL_abhijithsai.docx' ass1.sh gitAssignment_abhijithsai.pdf mySQL_abhijithsai.docx
'~WRL2752.tmp' evenOrOdd.sh hello.txt printNoOfLines.sh
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ cat hello.txt
hello abhijith sai
good morning have a nice day
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ sh printNoOfLines.sh hello.txt
2 hello.txt
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ cat > newFile.txt
a
b
c
d
e
[1]+ Stopped cat > newFile.txt
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ sh printNoOfLines.sh newFile.txt
5 newFile.txt
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ [D
Type here to search

Select MINGW64:/c/assignmentAnswers
wc -l $1
Type here to search

Assignment4):

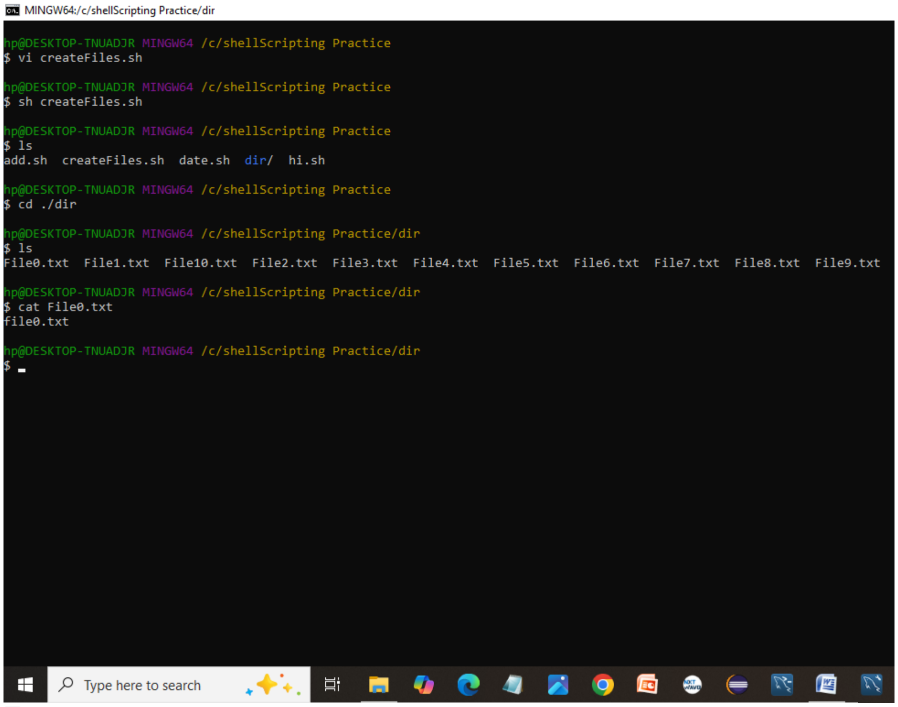
```
hp@DESKTOP-TNUADJR MINGW64 /c/shellScripting Practice
$ vi createFiles.sh
```

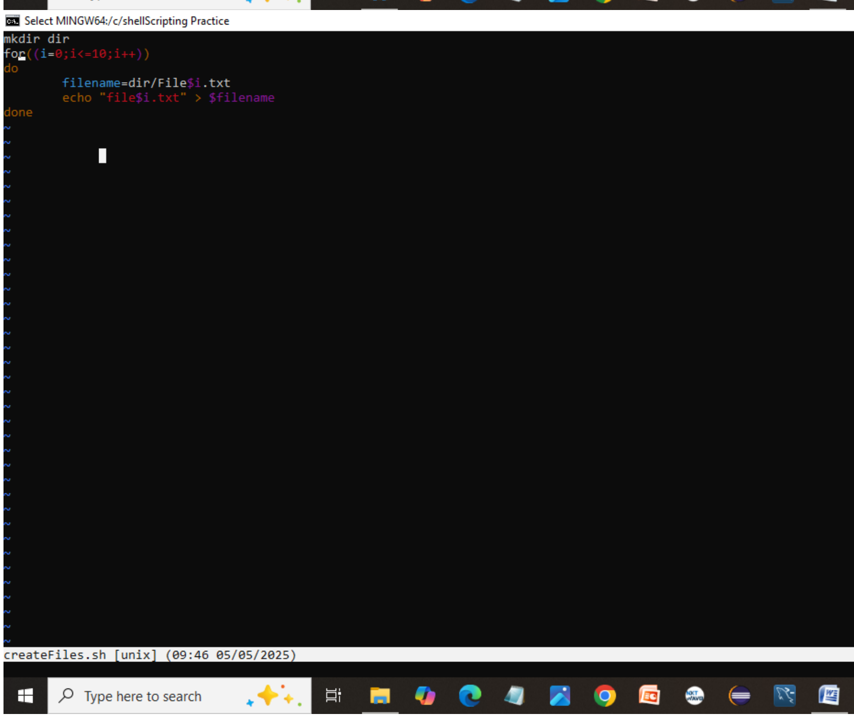
Shell code)

```
  mkdir dir
for((i=0;i<=10;i++))
do
        filename=dir/File$i.txt
        echo "file$i.txt" > $filename
done
```

end

```
hp@DESKTOP-TNUADJR MINGW64 /c/shellScripting Practice
$ ls
add.sh  createFiles.sh  date.sh  hi.sh

hp@DESKTOP-TNUADJR MINGW64 /c/shellScripting Practice
$ sh createFiles.sh

hp@DESKTOP-TNUADJR MINGW64 /c/shellScripting Practice
$ ls
add.sh  createFiles.sh  date.sh  dir/  hi.sh

hp@DESKTOP-TNUADJR MINGW64 /c/shellScripting Practice
$ cd /dir/
bash: cd: /dir/: No such file or directory

hp@DESKTOP-TNUADJR MINGW64 /c/shellScripting Practice
$ cd ./dir

hp@DESKTOP-TNUADJR MINGW64 /c/shellScripting Practice/dir
$ ls
File0.txt  File10.txt  File3.txt  File5.txt  File7.txt  File9.txt
File1.txt  File2.txt   File4.txt  File6.txt  File8.txt

hp@DESKTOP-TNUADJR MINGW64 /c/shellScripting Practice/dir
$ cat file1.txt
file1.txt
```


MINGW64:/c/shellScripting Practice/dir
hp@DESKTOP-TNUADJR MINGW64 /c/shellScripting Practice
$ vi createFiles.sh
hp@DESKTOP-TNUADJR MINGW64 /c/shellScripting Practice
$ sh createFiles.sh
hp@DESKTOP-TNUADJR MINGW64 /c/shellScripting Practice
$ ls
add.sh createFiles.sh date.sh dir/ hi.sh
hp@DESKTOP-TNUADJR MINGW64 /c/shellScripting Practice
$ cd ./dir
hp@DESKTOP-TNUADJR MINGW64 /c/shellScripting Practice/dir
$ ls
File0.txt File1.txt File10.txt File2.txt File3.txt File4.txt File5.txt File6.txt File7.txt File8.txt File9.txt
hp@DESKTOP-TNUADJR MINGW64 /c/shellScripting Practice/dir
$ cat File0.txt
file0.txt
hp@DESKTOP-TNUADJR MINGW64 /c/shellScripting Practice/dir
$
Type here to search


Select MINGW64:/c/shellScripting Practice
mkdir dir
for((i=0;i<=10;i++))
do
filename=dir/File$i.txt
echo "file$i.txt" > $filename
done
createFiles.sh [unix] (09:46 05/05/2025)
Type here to search

Assignment5)

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers

$viass3.sh

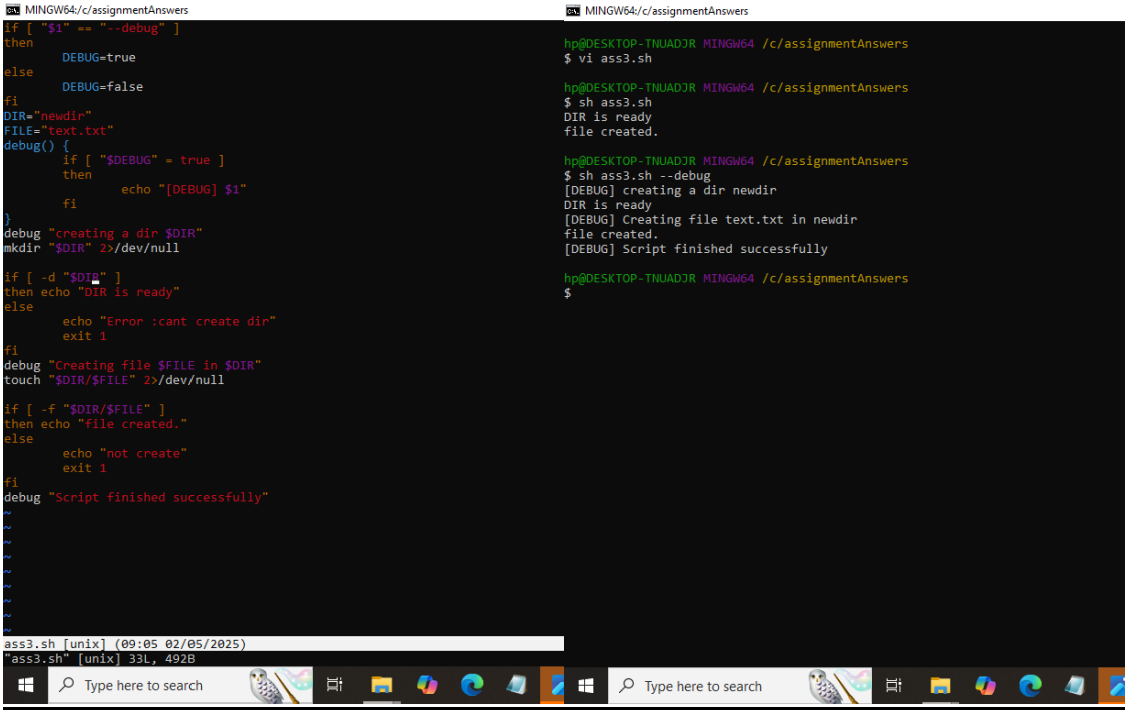
ShellScriptcode:-

```
if["$1"=="--debug"] then
    DEBUG=true
else
    DEBUG=false
fi
DIR="newdir"
FILE="text.txt"deb
ug() {
    if["$DEBUG"=true] then
        echo"[DEBUG] $1"
    fi
}
debug"creatingadir$DIR" mkdir
"$DIR" 2>/dev/null

if[-d"$DIR"]
thenecho"DIRisready"else
    echo"Error:cantcreatedir" exit
    1
fi
debug"Creatingfile$FILEin$DIR" touch
"$DIR/$FILE" 2>/dev/null
```

```
if [ -f "$DIR/$FILE" ]
thenecho"filecreated."els
e
    echo"notcreate" exit
    1
fi
debug"Scriptfinishedsuccessfully"
```

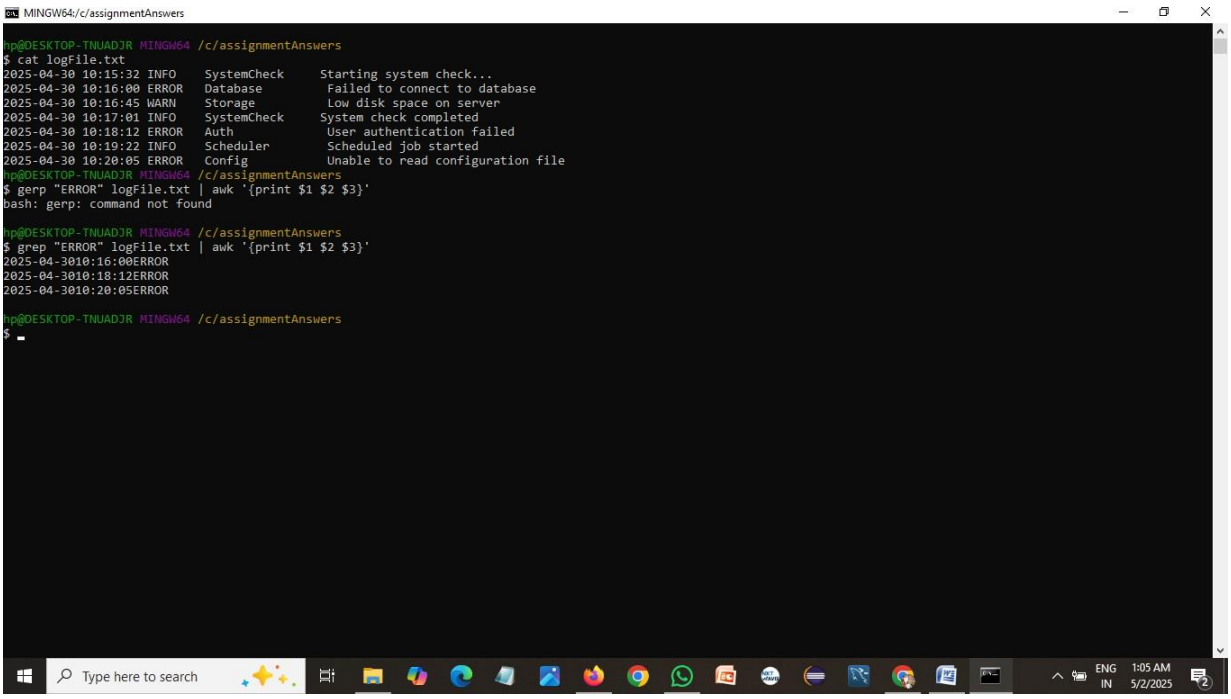
Endofshell script

```
hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers
$ sh ass3.sh
DIRisready
file created.
hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers
$shass3.sh--debug
[DEBUG]creatingadirnewdir
DIR is ready
[DEBUG]Creatingfiletext.txtinnewdir
file created.
[DEBUG]Scriptfinishedsuccessfully
```


MINGW64:/c/assignmentAnswers
if ["$1" == "--debug"]
then
DEBUG=true
else
DEBUG=false
fi
DIR="newdir"
FILE="text.txt"
debug() {
if ["$DEBUG" = true]
then
echo "[DEBUG] $1"
fi
}
debug "creating a dir $DIR"
mkdir "$DIR" 2>/dev/null
if [-d "$DIR"]
then echo "DIR is ready"
else
echo "Error :cant create dir"
exit 1
fi
debug "Creating file $FILE in $DIR"
touch "$DIR/$FILE" 2>/dev/null
if [-f "$DIR/$FILE"]
then echo "file created."
else
echo "not create"
exit 1
fi
debug "Script finished successfully"
ass3.sh [unix] (09:05 02/05/2025)
"ass3.sh" [unix] 33L, 492B
Type here to search
MINGW64:/c/assignmentAnswers
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ vi ass3.sh
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ sh ass3.sh
DIR is ready
file created.
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ sh ass3.sh --debug
[DEBUG] creating a dir newdir
DIR is ready
[DEBUG] Creating file text.txt in newdir
file created.
[DEBUG] Script finished successfully
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$
Type here to search

Assignment6)

```
hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers
$catlogFile.txt
2025-04-30 10:15:32 INFOSystemCheck        Starting system check...
2025-04-30 10:16:00 ERRORDatabase          Failedtoconnecttodatabase
2025-04-30 10:16:45 WARN    Storage        Low disk space on server
2025-04-30 10:17:01 INFOSystemCheck        System check completed
2025-04-30 10:18:12 ERRORAuth              User authentication failed
2025-04-30 10:19:22 INFOScheduler          Scheduled job started
2025-04-3010:20:05ERRORConfig              Unabletoreadconfigurationfile

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers
$grep"ERROR"logFile.txt|awk'{print$1$2$3}'2025
-04-3010:16:00ERROR
2025-04-3010:18:12ERROR
2025-04-3010:20:05ERROR
hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers
$
```


MINGW64:/c/assignmentAnswers
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ cat logFile.txt
2025-04-30 10:15:32 INFO SystemCheck Starting system check...
2025-04-30 10:16:00 ERROR Database Failed to connect to database
2025-04-30 10:16:45 WARN Storage Low disk space on server
2025-04-30 10:17:01 INFO SystemCheck System check completed
2025-04-30 10:18:12 ERROR Auth User authentication failed
2025-04-30 10:19:22 INFO Scheduler Scheduled job started
2025-04-30 10:20:05 ERROR Config Unable to read configuration file
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ gerp "ERROR" logFile.txt | awk '{print $1 $2 $3}'
bash: gerp: command not found
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$ grep "ERROR" logFile.txt | awk '{print $1 $2 $3}'
2025-04-3010:16:00ERROR
2025-04-3010:18:12ERROR
2025-04-3010:20:05ERROR
hp@DESKTOP-TNUADJR MINGW64 /c/assignmentAnswers
$
Type here to search
ENG
IN
1:05 AM
5/2/2025

Assignment7)

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers

$cattextFile.txt

Thisistheold_textthatwewanttoreplace.

Sometimesold_textappearsmultipletimes:old_textold_text!

Make sure all instances of old_text are replaced.

This line has no keyword.

old_textatthestartofaline.

Attheendofalineweseeold_text.

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers

$ sed 's/old_text/new_text/' textFile.txt > res.txt

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers

$catres.txt

Thisisthenew_textthatwewanttoreplace.

Sometimesnew_textappearsmultipletimes:old_textold_text!

Make sure all instances of new_text are replaced.

This line has no keyword.

new_textatthestartofaline.

Attheendofalinewesee new_text.

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers

$ sed 's/old_text/new_text/g' textFile.txt > res.txt

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers

$catres.txt

Thisisthenew_textthatwewanttoreplace.

Sometimesnew_textappearsmultipletimes:new_textnew_text! Make

sure all instances of new_text are replaced.

This line has no keyword.

new_textatthestartofaline.

Attheendofalinewesee new_text.

hp@DESKTOP-TNUADJRMINGW64/c/assignmentAnswers

$