## **BASH SHELL-SCRIPTING ASSIGMENT**

"Assignment 1: Ensure the script checks if a specific file (e.g., myfile.txt) exists in the current directory. If it exists, print ""File exists", otherwise print ""File not found"".

Assignment 2: Write a script that reads numbers from the user until they enter '0'. The script should also print whether each number is odd or even.

```
main.bash
   1
      read
      if [ $n -eq 0 ]; then
               "exit because you entered 0 "
           until [ $n -eq 0 ]; do
               if (($n%2==0)); then echo "$n is even"
               else
                   ho "$n is odd"
  10
  11
           read n
  12
                "exit because you entered 0"
  13
  14 fi
            $
.5
15
  is odd
20
20
  is even
58
68 is even
```

Assignment 3: Create a function that takes a filename as an argument and prints the number of lines in the file. Call this function from your script with different filenames.

```
main.bash
           f.txt
                     f1.txt
                                 f3.txt
          file="$1"
  2
          lines=$(wc -1 < "$file")</pre>
          echo "no.of lines in file:$lines"
  4
  5
  6
    linecount f.txt
    linecount f1.txt
    linecount f3.txt
no.of lines in file:4
no.of lines in file:3
no.of lines in file:1
..Program finished with exit code 0
Press ENTER to exit console.
```

Assignment 4: Write a script that creates a directory named TestDir and inside it, creates ten files named File1.txt, File2.txt, ... File10.txt. Each file should contain its filename as its content (e.g., File1.txt contains ""File1.txt"").

```
main bash Testdir/File1 bt : Testdir/File1 bt : Testdir/File2 bt : Testdir/File3 bt : Testdir/File5 bt : Testdir/File6 bt : Tes
```

Assignment 5: Modify the script to handle errors, such as the directory already existing or lacking permissions to create files.

Add a debugging mode that prints additional information when enabled.

```
| TestDurFile1 tot : TestDurFile1 tot : TestDurFile1 tot : TestDurFile2 tot : TestDurFile3 tot : TestDurFile5 tot : TestDurFile6 tot : TestDurFile
```

Assignment 6: Given a sample log file, write a script using grep to extract all lines containing ""ERROR"". Use awk to print the date, time, and error message of each extracted line.

Data Processing with sed

Assignment 7: Create a script that takes a text file and replaces all occurrences of ""old\_text"" with ""new\_text"". Use sed to perform this operation and output the result to a new file.

```
main.bash file1.txt iffile2.txt

1 input="$1"
2 old="$2"
3 new="$3"
4 out="output_$(basename "$input")"
5 if [ ! -f "$input" ]; then
6 echo "Error: File not found!"
7 exit 1
8 fi
9 sed "s/$old/$new/g" "$input" > "$out"
```

```
Crror: File not found!

...Program finished with exit code 1
Press ENTER to exit console.
```