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".

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 bosh

file2 bt :

2  # Code, Compile, Run and Debug Bash script online.

3  # Write your code in this editor and press "Run" button to execute it.

4  *

6  read n

7  if [$n -eq 0]; then

8  echo "exit because you entered 0"

10  if ((n%2=0)); then

11  else "$n is even"

12  echo "$n is odd"

13  fi

16  read n

17  if [$n -eq 0]; then

18  echo "$n is even"

19  else

10  if (en%2=0); then

11  echo "$n is even"

12  is odd

13  is even

7  is odd

9  is odd

9  is odd
```

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 fixt F8 fl.kt i P.txt i

# Code, Compile, Run and Debug Bash script online.

# Write your code in this editor and press "Run" button to execute it.

# wordcount(){

# file="$1"

# lines=$(wc -1 < "$file")

# wordcount f.txt

# wordcount f1.txt

# wordcount f2.txt

# wordcount f2.txt

# wordcount f1.txt

# wordcount f2.txt

# wordcount f3.txt

# wordcount f4.txt

# wordcount
```

4) Write a script that creates a directory named TestDir and inside it, creates ten files namedFile1.txt, File2.txt, ... File10.txt. Each file should contain its filename as its content (e.g., File1.txt contains "File1.txt").

```
main bash Tostdir/File1.bxt : Tostdir/File10.bxt : Tostdir/File3.bxt : Tostdir/File4.bxt : Tostdir/File5.bt : Tostdir/File4.bxt : Tostdir/File5.bt : Tostdir/File5.bt
```

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.

```
main bash
TestDir/File1.bxt: TestDir/File10.bxt: TestDir/File2.bxt: TestDir/File3.bxt: TestDir/File4.bxt: Te
```

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.

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

fixt

i output_fixt

fixt

i output_fixt

nonline Bash Shell.

code, Compile, Run and Debug Bash script online.

write your code in this editor and press "Run" button to execute it.

input="$1"

old="$2"

new="$3"

out="output_$(basename "$input")"

if ['-f"$input"]; then

echo "Error: File not found!"

exit 1

fi

sed "s/$old/$new/g" "$input" > "$out"
```