

Assignment 1: Count the number of files and folders present in the directory. if possible take the directory path from the user.

```
#!/bin/bash
read -r -p "Enter the path: " path
path=$(echo "$path")
files=0
folders=0
if [ -e "$path" ]
then
for curr in "$path"/*
do
if [ -f "$curr" ]
then
((files++))
elif [ -d "$curr" ]
then
((folders++))
fi
done
else
echo "Path not present."
fi
echo "Folders: $folders and Files: $files"
```

Assignment 2: 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".

```
#!/bin/bash
read -p "Enter the path of the file name: " file
if [ -e "$file" ]
then
echo "File exists"
else
echo "File not found"
fi
```

Assignment 3: 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.

```
#!/bin/bash
read -p "Enter a number: " input
while [ $input -ne 0 ]
do
    if [ $((input%2)) -eq 0 ]
    then
        echo "Even"
    else
        echo "Odd"
    fi
    read -p "Enter a number: " input
done
```

Assignment 4: 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.

```
#!/bin/bash
count()
{
    file=$1
    if [ -e "$file" ]
    then
        if [ -f "$file" ]
        then
            line_count=$(wc -l < "$file")
            echo "'$file' has $line_count lines."
        else
            echo "'$file' is not a regular file."
        fi
    else
        echo "'$file' doesn't exist."
    fi
}
```

count presszero.sh