

## Assignment-1

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".

### Solution:

```
#!/bin/bash
File3="myfile.txt"

if [ -f "$file3" ]; then
    echo "File exists"
else
    echo "File not found"
fi
```

## Assignment-2

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.

### Solution:

```
#!/bin/bash

while true; do
    read -p "Enter a number (0 to quit): " number
    if [[ "$number" -eq 0 ]]; then
        echo "Exiting---"
        break
    fi
    if [[ $((number % 2)) -eq 0 ]];
    then
```

```
        echo "$number is even."
    else
        echo "$number is odd."
    fi
done
```

### Assignment-3

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.

**Solution:**

```
#!/bin/bash
count_lines() {
    local file3=$1
    local num_lines=$(wc -l < "$file3")
    echo "Number of lines in $filename: $num_lines"
}
count_lines "file3.txt"
count_lines "file1.txt"
```

### Assignment-4

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").

**Solution:**

```
#!/bin/bash
```

```
mkdir TestDir
```

```
cd TestDir || exit
```

```
for ((i=1; i<=10; i++))
```

```
do
```

```
    filename="File${i}.txt"
```

```
    echo "$filename" > "$filename"
```

```
    echo "Created $filename with content \"${filename}\""
```

```
done
```

```
echo "Files created successfully in TestDir."
```

### **Assignment-5**

**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.