1.File check

```
#!/bin/bash
read -p "Enter filename: " file

if [ -f "$file" ]; then
    echo "$file is a regular file."
elif [ -d "$file" ]; then
    echo "$file is a directory."
else
    echo "$file does not exist."
fi
```

2.Count files and directories

```
#!/bin/bash
files=$(ls -l | grep "^-" | wc -l)
dirs=$(ls -l | grep "^d" | wc -l)

echo "Files: $files"
echo "Directories: $dirs"
```

3.Sum of N number

```
#!/bin/bash
read -p "Enter N: " n
sum=0

for (( i=1; i<=n; i++ ))
do
    read -p "Enter number $i: " num
    sum=$((sum + num))
```

```
done

echo "Sum = $sum"
```

4. Word Counter

```
#!/bin/bash
read -p "Enter filename: " file

if [ -f "$file" ]; then
    echo "Lines: $(wc -l < "$file")"
    echo "Words: $(wc -w < "$file")"
    echo "Characters: $(wc -c < "$file")"
else
    echo "File not found."
fi
```

5. File/Directory Backup Script

```
#!/bin/bash
read -p "Enter source path: " src
read -p "Enter backup destination: " dest

if [ -e "$src" ]; then
    cp -r "$src" "$dest"
    echo "Backup successful!"
else
    echo "Source not found."
fi
```

6.Find & Replace in File

```
#!/bin/bash
read -p "Enter filename: " file
read -p "Word to find: " find
read -p "Word to replace: " replace

if [ -f "$file" ]; then
    sed -i "s/$find/$replace/g" "$file"
    echo "All occurrences of '$find' replaced with '$replace'."
else
    echo "File not found."
fi
```

7.Recursive File lister

```
#!/bin/bash
read -p "Enter directory path: " dir

if [ -d "$dir" ]; then
    echo "Listing all files under $dir:"
    find "$dir" -type f
else
    echo "Directory not found."
fi
```

8.System Info

```
#!/bin/bash
echo "Hostname: $(hostname)"
echo "Current User: $USER"
echo "Current Date: $(date)"
echo "Uptime: $(uptime -p)"
echo "Disk Usage:"
df -h | head -5
```

9.Clean tempo file

```
#!/bin/bash
read -p "Enter directory path: " dir

find "$dir" -type f -name "*.tmp" -exec rm -v {} \;
echo "Temporary files deleted."
```

10.Menu driven

```
#!/bin/bash
while true
do
    echo "1. Show Date"
    echo "2. Show Calendar"
    echo "3. Show Username"
    echo "4. Exit"
    read -p "Enter choice: " ch

    case $ch in
        1) date ;;
        2) cal ;;
```

```
        3) whoami ;;
        4) break ;;
        *) echo "Invalid option!" ;;
    esac
done
```

Common operators:

- `-eq` → equal
- `-ne` → not equal
- `-gt` → greater than
- `-lt` → less than
- `-ge` → greater or equal
- `-le` → less or equal