ASSIGNMENT 1 DEVESH LABANA B23CS1015

TASK 1:

```
#!/bin/bash
echo -n "Enter first number: "
read a
echo -n "Enter operator (+, -, *, /): "
echo -n "Enter second number: "
read b
case "$op" in
   +) result=$((a + b));;
   -) result=$((a - b));;
    \*) result=$((a * b));;
       if [ $b -eq 0 ]; then
           exit 1
       result=$((a / b))
esac
echo "Result: $a $op $b = $result"
```

TASK 2:

```
#!/bin/bash

if [ $# -eq 0 ]; then
    echo "Usage: $0 <directory_path>"
    exit 1

fi

dir=$1
```

```
if [ ! -d "$dir" ]; then
    echo "Error: $dir is not a directory"
    exit 1
fi

num_files=$(find "$dir" -type f | wc -1)
num_dirs=$(find "$dir" -type d | wc -1)
echo "Directory: $dir"
echo "Files: $num_files"
echo "Directories: $num_dirs"
```

TASK 3:

```
#!/bin/bash

if [ $# -eq 0 ]; then
    echo "Usage: $0 <log_file>"
    exit 1

fi

logfile=$1

if [ ! -f "$logfile" ]; then
    echo "Error: File not found!"
    exit 1

fi

grep "\[ERROR\]" "$logfile"
```

TASK 4:

```
#!/bin/bash

if [ $# -ne 2 ]; then
    echo "Usage: $0 <directory> <extension>"
    exit 1
fi
```

```
dir=$1
ext=$2

if [ ! -d "$dir" ]; then
     echo "Error: $dir is not a directory"
     exit 1

fi

find "$dir" -type f -name "*.$ext"
```