

## Assignment No: 1

**Name: Kedar Kale**  
**Roll No: CETTY129**  
**Batch: B12**

### # String Comparison

Code:-

```
echo 'enter string1 '  
read str1  
echo 'enter string2 '  
read str2  
if [ $str1 = $str2 ]  
then  
echo 'strings equal'  
else  
echo 'strings unequal'  
fi
```

### input/Output:-

```
[student@MGL3 ~]$ ./comparison.sh  
enter string1  
asmi  
enter string2  
dsa  
strings unequal  
[student@MGL3 ~]$ ./comparison.sh  
enter string1  
sad  
enter string2  
sad  
strings equal
```

### # Greatest Number

Code:-

```
echo 'Enter num1'  
read no1  
echo 'Enter num2'  
read no2  
echo 'Enter num3'  
read no3  
if [ $no1 -gt $no2 -a $no1 -gt $no3 ]  
then  
echo ' num1 is greater '  
else if [ $no2 -gt $no3 -a $no2 -gt $no1 ]  
then  
echo ' num2 is greater '  
else
```

```
echo ' num3 is greater '  
fi  
fi
```

#### **input/Output:-**

```
[student@MGL3 ~]$ ./gre.sh  
Enter num1  
5  
Enter num2  
2  
Enter num3  
1  
num1 is greater
```

#### **# Fibonnaci Series**

Code:-

```
echo "How many number of terms to be generated ?"  
read n  
x=0  
y=1  
i=0  
echo "Fibonacci Series up to $n terms :"  
while [ $i -lt $n ]  
do  
i=`expr $i + 1`  
z=`expr $x + $y`  
echo "$z"  
x=$y  
y=$z  
done
```

#### **input/Output:-**

```
[student@MGL3 ~]$ ./fibonacci.sh  
How many number of terms to be generated ?  
10  
Fibonacci Series up to 10 terms :  
1  
2  
3  
5  
8  
13  
21  
34  
55  
89
```

#### **# Calculator Program**

Code:-

```
ans = 0  
  
echo 'Enter num1 and num2 '  
read n1 n2  
echo '1. Addition '
```

```

echo '2.Substraction '
echo '3.Multiplication '
echo '4.Division'
echo 'Enter your choice: '

read ch
case $ch in
1)ans=`expr $n1 + $n2 `
echo "addition is="$ans ;;
2)ans=`expr $n1 - $n2 `
echo "substraction is="$ans ;;
3)ans=`expr $n1 \* $n2`
echo "multiplication is="$ans ;;
4)ans=`expr $n1 / $n2`
echo "Division is="$ans;;
*)
echo 'Invalid choice '
exit 1
;;
esac

```

### input/Output:-

```
[student@MGL3 ~]$ ./cal.sh
```

Enter num1 and num2

5 4

1. Addition

2.Substraction

3.Multiplication

4.Division

Enter your choice:

1

addition is=9

```
[student@MGL3 ~]$ ./cal.sh
```

Enter num1 and num2

5 4

1. Addition

2.Substraction

3.Multiplication

4.Division

Enter your choice:

2

substraction is=1

```
[student@MGL3 ~]$ ./cal.sh
```

Enter num1 and num2

5 4

1. Addition

2.Substraction

3.Multiplication

4.Division

Enter your choice:

3

```
multiplication is=20  
[student@MGL3 ~]$ ./cal.sh
```

```
Enter num1 and num2
```

```
5 4
```

```
1. Addition
```

```
2.Substraction
```

```
3.Multiplication
```

```
4.Division
```

```
Enter your choice:
```

```
4
```

```
Division is=1
```