

OS LAB 3

230701211

1)

AIM: To write a shell script to reverse a given digit using looping statement.

PROGRAM:

```
read -p "Enter the number: " num
rev=0
while [ $num -gt 0 ];
do
    rev=$((rev*10+num%10))
    num=$((num/10))
done
echo "$rev"
```

2)

AIM: To write a Shell script to generate a Fibonacci series using for loop

PROGRAM:

```
echo "Enter the number of terms:"
read n
a=0
b=1
echo "Fibonacci Sequence up to $n terms:"
for (( i=0; i<n; i++ ))
do
    echo -e "$a "
    fn=$((a + b))
```

```
a=$b      # Update the first term  
b=$fn     # Update the second term
```

```
done
```

SAMPLE INPUT AND OUTPUT:

```
Enter the number of terms:  
7  
Fibonacci Sequence up to 7 terms:  
0  
1  
1  
2  
3  
5  
8
```