

OS LAB MANUAL

(CS23431)

Lab:3

Roll No:230701234

1) Shell Script – Reverse of Dig

Aim: Reverse of Digit To write a Shell script to reverse a given digit using looping statement.

Program:

```
echo -n "Enter a number: "
```

```
read num
```

```
reverse=0
```

```
while [ $num -ne 0 ]
```

```
do
```

```
    digit=$((num % 10))
```

```
    reverse=$((reverse * 10 + digit))
```

```
    num=$((num / 10))
```

```
done
```

```
echo "Reversed number: $reverse"
```

Input:

```
pranav@Pranav:~$ vi threeA.sh
pranav@Pranav:~$ sh threeA.sh
Enter a number: 12345
```

Output:

```
pranav@Pranav:~$ vi threeA.sh
pranav@Pranav:~$ sh threeA.sh
Enter a number: 12345
Reversed number: 54321
pranav@Pranav:~$ |
```

2) Shell Script – Fibonacci Series

Aim: Series To write a Shell script to generate a Fibonacci series using for loop.

Program:

```
echo -n "Enter the number of terms for the Fibonacci series: "
```

```
read n
```

```
a=0
```

```
b=1
```

```
echo "Fibonacci series up to $n terms:"
```

```
for i in $(seq 1 $n)
```

```
do
```

```
    echo -n "$a "
```

```
temp=$((a + b))
```

```
a=$b
```

```
b=$temp
```

```
done
```

```
echo
```

Input:

```
pranav@Pranav:~$ vi threeB.sh
pranav@Pranav:~$ sh threeB.sh
Enter the number of terms for the Fibonacci series: 5
```

Output:

```
pranav@Pranav:~$ vi threeB.sh
pranav@Pranav:~$ sh threeB.sh
Enter the number of terms for the Fibonacci series: 5
Fibonacci series up to 5 terms:
0 1 1 2 3
```