

**Ex. No: 3a Date: 28/1/25**

### **Shell Script – Reverse of Digit**

#### **AIM:**

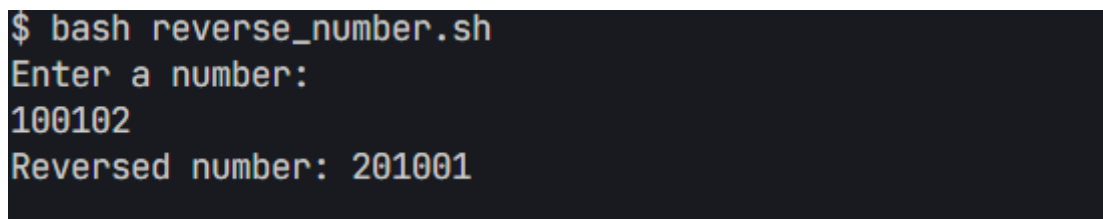
To write a Shell script to reverse a given digit using looping statement.

#### **PROGRAM:**

```
#!/bin/bash
read -p "Enter a number: " num reverse=0
while [ $num -gt 0 ]; do
digit=$(( num % 10 )) reverse=$(( reverse * 10 + digit )) num=$(( num / 10 ))
done

echo "Reversed number: $reverse"
```

#### **OUTPUT:**



```
$ bash reverse_number.sh
Enter a number:
100102
Reversed number: 201001
```

#### **RESULT:**

The shell script to reverse a given digit is successfully implemented.

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**Ex. No: 3b Date: 28/1/25**

### **Shell Script – Fibonacci Series**

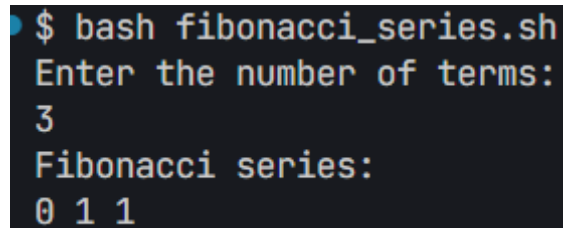
#### **AIM:**

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

#### **PROGRAM:**

```
#!/bin/bash
read -p "Enter the number of terms: " n a=0
b=1
echo "Fibonacci Series:" for (( i=0; i<n; i++ )); do
echo -n "$a " temp=$((a + b)) a=$b
b=$temp
done echo
```

#### **OUTPUT**



```
$ bash fibonacci_series.sh
Enter the number of terms:
3
Fibonacci series:
0 1 1
```

#### **RESULT:**

The Shell Script to generate the Fibonacci series is successfully implemented.

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