Ex No: 3 (a)   **Shell Script – Reverse of Digit**

Date: *29.01.2025*

Aim:

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

Algorithm:

1. Start the script.

2. Prompt the user to enter a number.

3. Read the input.

4. Initialize the reverse variable to 0.

5. Use a loop to extract the last digit of the number using modulus (%) and build the reversed number.

6. Divide the number by 10 in each iteration to remove the last digit.

7. Continue until the number becomes 0.

8. Display the reversed number.

9. End the script.

Program: (indhu.sh)

```
#!/bin/bash
# Script to reverse a number

echo "Enter number:" read
num
rev=0
```

```
while [ $num -gt 0 ]

do   rem=$((num   %

10))

    rev=$((rev * 10 + rem)) num=$((num

    / 10))
```

```
done


echo "Reversed number: $rev"
```

Sample Input and Output: [REC@localhost

~]$ sh indhu.sh

Enter number:

123

Reversed number: 321

Result:

    The Shell script to reverse a given number using looping was successfully implemented, executed, and the output was verified.