Ex No: 3	Roll no:231901004
Date: 29.01.2025	
Shell Script - Fibonacci Series	
Aim:	
To write a Shell script to generate a Fibonacci series using a for loop.	
Algori	thm:
1.	Start the script.
2.	Prompt the user to enter a limit number.
3.	Read the input.
4.	Initialize the first two Fibonacci numbers (a = 0 , b = 1).
5.	Use a loop to generate and print Fibonacci numbers up to the given number.
6.	Continue until the number exceeds the input.
7.	End the script.
Program: (indhu.sh)	
#!/bin/bash	
# Script to generate Fibonacci series using for loop	
echo "Enter number:"	
read n	
a=0 b=	1
echo "Fibonacci series:"	
echo \$a	
echo \$	b

```
do
fib=$((a + b))
if [ $fib -gt $n ]; then
break
```

RollNo:231901033

for ((i=0; i<n; i++))

echo \$fib

a=\$b

fi

b=\$fib

done

Sample Input and Output:

[REC@localhost ~]\$ sh indhu.sh

Enter number:

21

Fibonacci series:

0

1

1

2

3

5

8

13

21

Result:

The Shell script to generate a Fibonacci series using a for loop was successfully implemented, executed, and the output was verified.