

Ex. No.: 3b)
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Shell Script – Fibonacci Series

Aim:

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

Program:

```
echo "Enter the number of terms: "  
read n  
  
a=0  
b=1  
  
echo -n "$a $b "  
  
for (( i=2; i<n; i++ ))  
do  
    fn=$((a + b))  
    echo -n "$fn "  
    a=$b  
    b=$fn  
done
```

Sample Input and Output

Run the program using the below command

```
[REC@local host~]$sh indhu.sh
```

enter number

21

fibonacci series

0

1

1

2

3

5

8

13

21

34

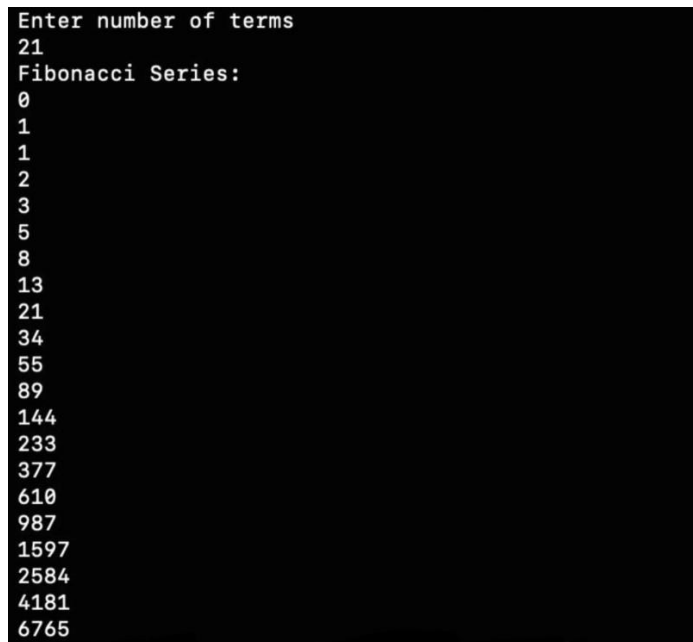
55

89

144

233

377



```
Enter number of terms
21
Fibonacci Series:
0
1
1
2
3
5
8
13
21
34
55
89
144
233
377
610
987
1597
2584
4181
6765
```

Result:

Shell script to generate a Fibonacci series using a for loop was executed and the output has been verified.