

**Ex. No.: 3b)**

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

**Aim:**

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

**Program:**

```
echo -n "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 for loop was executed and got the output.