

Expr 3 b: Fibonacci Series

Fibonacci Series code:

```
#!/bin/sh

# Prompt the user for the number of terms
read -p "Enter the number of terms: " n

# Initialize the first two Fibonacci numbers
a=0
b=1

echo "Fibonacci Series up to $n terms:"

# Generate Fibonacci series using a loop
for (( i=0; i<n; i++ ))
do
    echo -n "$a "
    fn=$((a + b))
    a=$b
    b=$fn
done

echo
```

Output:

```
user@linux:~$ ./fibonacci.sh
Enter the number of terms: 10
Fibonacci Series up to 10 terms:
0 1 1 2 3 5 8 13 21 34
```

Result:

Thus the Fibonacci Series Code is implemented in fedora using the shell script language