**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