Code:

object fib {

def main(args: Array[String]): Unit ={

println("Enter a nth numbers:")

var num: Int = scala.io.StdIn.readLine().toInt

var num1 = 0

var num2 = 1

var a: Int = 0;

var b: Int = 0;

println("Using for loop")

for(a <- 1 to num){

val sumOfPrevTwo = num1 + num2

num1 = num2

num2 = sumOfPrevTwo

}

println(num + " digit in the sequence is:"+num2)

println("Using Recursion")

println(num + " digit in the sequence is:"+fib1(num))

}

def fib1(n: Int): Int =if (n < 2) 1 else fib1(n-1) + fib1(n-2)

}

Output:

