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Assignment 1:
Source Code:
Recursion –
# Python program to display the Fibonacci sequence
def recur_fibo(n):
 if n <= 1:
   return n
 else:
   return(recur_fibo(n-1) + recur_fibo(n-2))
nterms = 10
# check if the number of terms is valid
if nterms <= 0:
 print("Plese enter a positive integer")
else:
 print("Fibonacci sequence:")
 for i in range(nterms):
   print(recur_fibo(i))
```

Output:

Fibonacci sequence:

Without Recursion: Source Code — first = 0 second = 1 n = 10 print(first) print(second) for i in range(1, n): third = first+second first,second = second,third print(third)

Output: