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1  #For Loops Challenge 14: Fibonacci Calculator App
2
3  print("Welcome to the Fibonacci Calculator App")
4
5  #Get user input
6  num = int(input("\nHow many digits of the Fibonacci Sequence would you like to
compute: "))
7
8  #Compute the values of the fib
9  fib = [1,1]
10 for i in range(num-2):
11     new_fib = fib[i] + fib[i+1]
12     fib.append(new_fib)
13
14 #Display the fib values
15 print("\nThe first " + str(num) + " numbers of the Fibonacci Sequence are: ")
16 for number in fib:
17     print(number)
18
19 #Compute the golden ratio
20 golden = []
21 for i in range(len(fib)-1):
22     ratio = fib[i+1]/fib[i]
23     golden.append(ratio)
24
25 #Display the golden ratio values
26 print("\nThe corresponding Golden Ratio values are: ")
27 for ratio in golden:
28     print(ratio)
29
30 print("\nThe ratio of consecutive Fibonacci terms approaches Phi; 1.618...")

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