

SI@UCF Introduction to Python

Optional Homework Assignment: Fibonacci Numbers

Fibonacci Numbers program

Write a program that asks the user to enter a positive integer, n , and prints out the n^{th} Fibonacci number. The Fibonacci numbers are defined as follows:

- 1) The first two Fibonacci numbers are 1.
- 2) To get the next Fibonacci number, always add the two previous ones.

So, the first few Fibonacci numbers are:

1, 1, 2, 3, 5, 8, 13, 21, 34, 55, and 89.

Sample Run #1

Which Fibonacci number do you want?

10

Fib(10) = 55

Sample Run #2

Which Fibonacci number do you want?

20

Fib(20) = 6765

Sample Run #3

Which Fibonacci number do you want?

1

Fib(1) = 1

Sample Run #4

Which Fibonacci number do you want?

2

Fib(2) = 1