proj02: Iteration

Part I:
Open proj02_01.py.

Write a program that prompts the user to enter numbers, one per line, ending with a line containing 0, and keep a running sum of the numbers. Only print out the sum after all the numbers are entered (at least in your final version). Each time you read in a number, you can immediately use it for your sum, and then be done with the number just entered.

Example:

```
Enter a number to sum, or 0 to indicate you are finished: 4
Enter a number to sum, or 0 to indicate you are finished: 5
Enter a number to sum, or 0 to indicate you are finished: 2
Enter a number to sum, or 0 to indicate you are finished: 10
Enter a number to sum, or 0 to indicate you are finished: 0

The sum of your numbers is: 21
```

Part II:
Open proj02_02.py

Write a program that asks the user how many Fibonacci numbers to generate and then generates them.
The Fibonacci sequence is a sequence of numbers where the next number in the sequence is the sum of the previous two numbers in the sequence. The sequence looks like this: 1, 1, 2, 3, 5, 8, 13 …

Extensions:

- Use the other type of loop
- Instead of Fibonacci numbers, generate powers of 2
- Instead of Fibonacci numbers, generate all divisors of a number (*Hint*: % gives the remainder of two numbers, so 8%4 = 0, and 8%5 = 1).

Example:

```
How many Fibonacci numbers would you like to generate? 8

1
1
2
3
5
8
13
21
```