Write solutions to the following problems in python:  
  
  
FizzBuzz:

Write a program that plays the game of FizzBuzz: Count from 1 to 100, but when the number is a multiple of 3, say 'Fizz', and when the number is a multiple of 5, say 'Buzz'. When the number is a multiple of both, say 'FizzBuzz'

Reading Files

Write a python program that asks the user to enter the name of a text file, then produces a text file with the same content but line numbers added to the beginning of each line.

Apples:

Apples (the fruit) have become a hot commodity to trade on the stock market. Given a list of prices in chronological order, write a program that determines the greatest possible profit from a single purchase and sale of apples. Assume a starting budget of $100.

Prices in dollars: [14, 6, 9, 7, 8, 10, 3, 9]