**LAB 3**

**Q1.** [**https://jsbin.com/cosufez**](https://jsbin.com/cosufez)

**Q2.** [**https://jsbin.com/fogepap**](https://jsbin.com/fogepap)

Review Questions

Q1. Streams are an abstraction used to model asynchronous data sources.

A stream is a powerful technique when processing data when you either don’t know its potential size and/or you don’t know when it will arrive into your application.

An observer Define a one-to-many dependency between objects so that when one object changes state, all its dependents are notified and updated automatically.

Once a stream is created over some future data, the stream’s data (as it arrives) can be operated on and transformed into new streams

Streams implement the observer pattern where data is released using the subscribe operation.

In Rich Web we can use streams for handling operations such as the calculator from q1.

Q2.

The benefit of a stream over promises and callbacks is that they are more concise and cleaner. Streams have way less code to implement. Streams makes it finally possible to handle both synchronous and asynchronous errors with the same construct. Debugging is easier in streams.