# Question 1:

Stream abstraction is used to describe how asynchronous data can be processed within web development. Streams are a sequence of data over time and can be utilized within a web application at different times, and at different values.

The relationship between streams and the observer pattern can be outlined by representing a stream as a subject which is being observed. As a stream is a sequence of data over time, as previously stated, the value of the data from this sequence will depend on when it was retrieved. To retrieve the data from a stream, a subscription operation must be used.

Streams are useful for modelling, for example, button clicks. If many buttons exist within a web page, the button clicks can be mapped to specific functions depending on which button was clicked.