Project Objective

- To create a web-browser based VCD waveform viewer with basic functionalities
  - Displaying the hierarchy
  - Selecting the signals to be plotted
  - Viewing the signal transitions
  - Zoom in/out
  - Measuring the time difference between the transitions
- Integrate the waveform viewer to Google Chrome
- Wishlist
  - Integrate the waveform viewer with all the prominent browsers
  - Load two or more VCDs to compare the waveforms

Project Outline - Tools/Packages and Technology Stack Used

- Python 2.7.x
- SVG (Scalable vector Graphics) file format
- Python packages: svgwrite
- Google app engine

Outline of work completed

- A class is defined for VCD file parsing
- Class has functions for
  - Listing the signals with the hierarchy information
  - Extracting the transitions of the signals and then saving in a dictionary
  - Given two timestamps and a signal list, all the transitions of each signal in the list between the timestamps are returned
  - Listing the values of the signals at a particular time instant
- Frontend of the project: started with Google app builder

Outline of the work to be done

- Representing data in SVG format
- Integrating the SVG file in the app using python
- To make the GUI