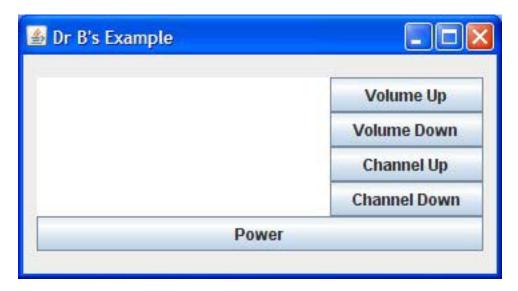
Gui Design

In this in-class exercise, we will be creating a gui from scratch. Create a file called TV.java and add code so that you can create the following GUI:



- Remember to extend JFrame
- Use the GridBagLayout Manager
 - o Advantage
 - Components can be different size and width
 - Can be placed in any order
 - Need a GridBagConstraints object to set the stats, such as x and y, width and heigth
 - o Adding is a little more difficult, I would suggest using the method below
 - o Components can take up the entire area or a fill of GridBagConstraints.BOTH
- For the fake TV screen, use a JTextArea of size 6x20

You may want to use the following method:

```
// method to set constraints
private void addComponent( GridBagLayout layout, GridBagConstraints constraints,
                               JFrame frame, Component component,
                               int row, int column,
                               int width, int height,
                               int weightx, int weighty,
                               int fill )
{
      constraints.gridx = column; // set gridx
      constraints.gridy = row; // set gridy
      constraints.gridwidth = width; // set gridwidth
      constraints.gridheight = height; // set gridheight
      constraints.weightx = weightx;
      constraints.weighty = weighty;
      constraints.fill = fill; //Use GridbagConstraints.BOTH probably
      layout.setConstraints( component, constraints ); // set constraints
      frame.add( component ); // add component
}
```