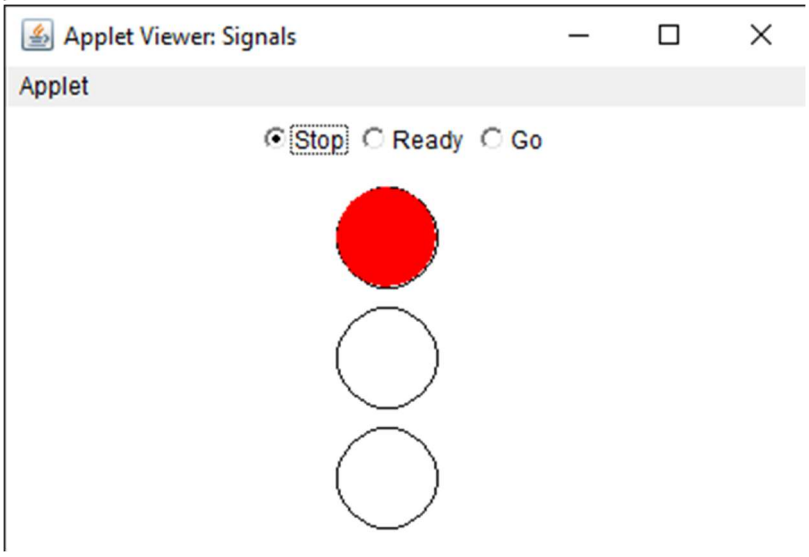
Source Code:

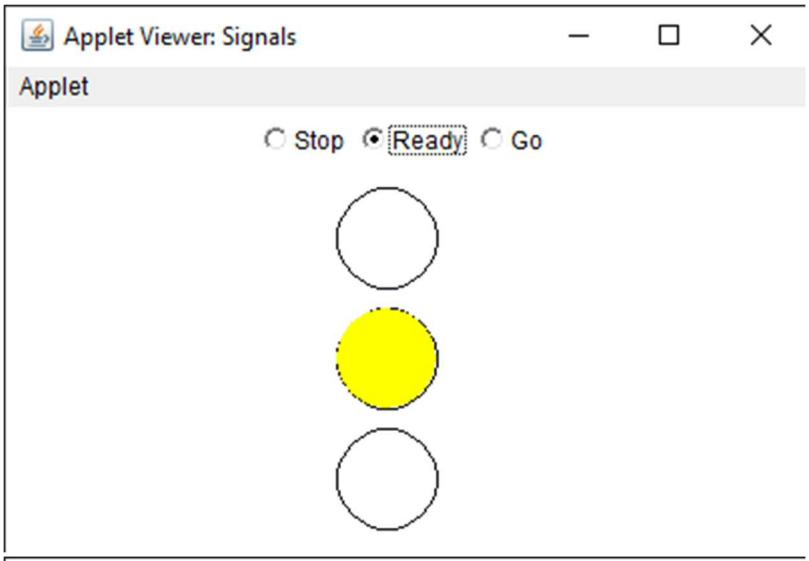
```
import java.applet.*;
import java.awt.*;
import java.awt.event.*;
/*<applet code="Signals" width=400 heigjt=250></applet>*/
public class Signals extends Applet implements ItemListener
{
	String msg="";
	Checkbox stop,ready,go;
	CheckboxGroup cbg;
	public void init()
	{
		cbg=new CheckboxGroup();
		stop=new Checkbox("Stop",cbg,false);
		ready=new Checkbox("Ready",cbg,false);
		go=new Checkbox("Go",cbg,false);
		add(stop);
		add(ready);
		add(go);
		stop.addItemListener(this);
		ready.addItemListener(this);
		go.addItemListener(this);
	}
	public void itemStateChanged(ItemEvent ie)
	{
		repaint();
	}
	public void paint(Graphics g)
	{
		msg=cbg.getSelectedCheckbox().getLabel();
		g.drawOval(165,40,50,50);
		g.drawOval(165,100,50,50);
		g.drawOval(165,160,50,50);
		if(msg.equals("Stop"))
		{
			g.setColor(Color.red);
			g.fillOval(165,40,50,50);
		}
		else if(msg.equals("Ready"))
		{
			g.setColor(Color.yellow);
			g.fillOval(165,100,50,50);
		}
		else
		{
			g.setColor(Color.green);
			g.fillOval(165,160,50,50);
		}
	}
}
```

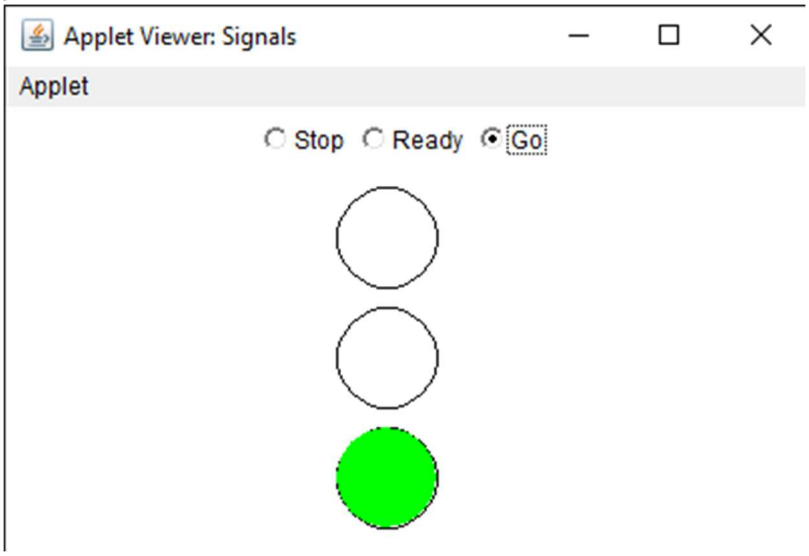
```
public class QuickSortOnStrings
{
	String names[];
	int length;
	public static void main(String[]args)
	{
		QuickSortOnStrings obj=new QuickSortOnStrings();
		String stringsList[]={"Raja","Gouthu","Rani","Gouthami","Honey","Heyaansh","Hello"};
		obj.sort(stringsList);
		for(String i:stringsList)
		{
			System.out.println(i);
		}
	}
	void sort(String array[])
	{
		if(array==null||array.length==0)
		{
			return ;
		}
		this.names=array;
		this.length=array.length;
		quickSort(0,length-1);
	}
	void quickSort(int lowerIndex,int higherIndex)
	{
		int i=lowerIndex;
		int j=higherIndex;
		String pivot=this.names[lowerIndex+(higherIndex-lowerIndex)/2];
		while(i<=j)
		{
			while(this.names[i].compareToIgnoreCase(pivot)<0)
			{
				i++;
			}
			while(this.names[j].compareToIgnoreCase(pivot)>0)
			{
				j--;
			}
			if(i<=j)
			{
				exchangeNames(i,j);
				i++;
				j--;
			}
```

```
                        if (lowerIndex<j)
                        {
                                quickSort(lowerIndex,j);
                        }
                        if (i<higherIndex)
                        {
                                quickSort(i,higherIndex);
                        }
                }
        }
        void exchangeNames(int i,int j)
        {
                String temp=this.names[i];
                this.names[i]=this.names[j];
                this.names[j]=temp;
        }
}
```

Output:




Applet Viewer: Signals
Applet
Stop
Ready
Go


Applet Viewer: Signals
Applet
Stop
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Go