■ Contents

■ Callback functions of the Control Panel's button

- list of call back functions which are called when the buttons are pressed.
- Student will inherit the super class and implement these

```
abstract public void button1();
abstract public void button2();
abstract public void button3();
abstract public void button4();
abstract public void button5();
abstract public void button6();
abstract public void button7();
abstract public void button8();
abstract public void button9();
abstract public void buttonStar();
abstract public void button0();
abstract public void buttonSharp();
```

■ APIs of the Control Panel's display

- API to control the visual display of SafeHomeControlPanel

```
public void setDisplayNumber(int number)  - security zone number /* NOT USED for this project */
public void setDisplayAway(boolean on)
public void setDisplayStay(boolean on)
public void setDisplayNotReady(boolean on)
public void setDisplayShortMessage(String message)
public void setLedArmed(boolean on)
public void setDisplaySecurityZone(int zone)
```

■ Interface of the Camera

```
// Assume that a String as a picture from the real camera.
// The string has the information - pan, zoom, time.
// For example, "time = 00, zoom x5, center"
// boolean returning shows whether the operation success or not(limitation
reached).
// The time information increaseed every one second.
public interface interfaceCamera
{
   public void setID(int id);
   public int getID();
   public BufferedImage getView();
   public boolean panRight();
   public boolean panLeft();
   public boolean zoomIn();
   public boolean zoomOut();
}
```

■ Interface of the Sensor

```
// The sensor's ID will be given sequentially when new allocation of sensor
object.
// polling is done on isOpen() function.
public interface interfaceSensor
{
   public int getID();// start from 1 and increase by 1
   public boolean read();// return true when door is opened or motion detected.
   public void enable();
   public void disable();
   public boolean test();
}
```