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**■ 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 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**

**public** **interface** interfaceCamera

{

public void setID(int id);

public int getID();

// Assume that a picture (BufferedImage object) taken from the camera

// include the following information visually – time, zoom, pan,

// For example, "time = 01, zoom x5, center"

// The time information should increases every second.

**public** BufferedImage getView();

// boolean return value indicates whether the operation success or not

//(e.g., false when no more panning right is physically allowed)

**public** **boolean** panRight();

**public** **boolean** panLeft();

**public** **boolean** zoomIn();

**public** **boolean** zoomOut();

}

**■ Interface of the Sensor**

**public** **interface** interfaceSensor

{

**public** **int** getID();// ID starts from 1 and increase by 1 for a new sensor object

public boolean read();// return true when door is opened or motion detected.

public void enable();

public void disable();

public boolean test();

}