

```
1: package com.delta.abstraction;
2:
3: import android.app.Activity;
4: import android.os.Bundle;
5: import android.view.Menu;
6: import android.view.MenuItem;
7:
8: public class AbstractionActivity extends Activity {
9:
10:     @Override
11:     protected void onCreate(Bundle savedInstanceState) {
12:         super.onCreate(savedInstanceState);
13:         setContentView(R.layout.activity_abstraction);
14:         //
15:         // Start here
16:         //
17:
18:         Fan myFan = new Fan();
19:         Light myLight = new Light();
20:
21:         myFan.breakDevice();
22:         myLight.breakDevice();
23:
24:
25:         Switch mySwitch = new Switch();
26:
27:         mySwitch.turnOnSwitchable(myLight);
28:         mySwitch.turnOffSwitchable(myFan);
29:
30:     }
31:
32:
33:     @Override
34:     public boolean onCreateOptionsMenu(Menu menu) {
35:
36:         // Inflate the menu; this adds items to the action bar if it is present.
37:         getMenuInflater().inflate(R.menu.abstraction, menu);
38:         return true;
39:     }
40:
41:     @Override
42:     public boolean onOptionsItemSelected(MenuItem item) {
43:         // Handle action bar item clicks here. The action bar will
44:         // automatically handle clicks on the Home/Up button, so long
45:         // as you specify a parent activity in AndroidManifest.xml.
46:         int id = item.getItemId();
47:         if (id == R.id.action_settings) {
48:             return true;
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49:         }  
50:         return super.onOptionsItemSelected(item);  
51:     }  
52:  
53: }
```

```
1: package com.delta.abstraction;
2:
3: /**
4:  * Created by learnovate on 2/20/14.
5:  */
6: public abstract class Device {
7:
8:     protected String deviceName;
9:     protected boolean isOn;
10:
11:     public abstract void breakDevice();
12:
13:     public String getDeviceName() {
14:         return deviceName;
15:     }
16:
17:     public void setDeviceName(String deviceName) {
18:         this.deviceName = deviceName;
19:     }
20:
21:     public boolean isOn() {
22:         return isOn;
23:     }
24:
25:     public void setOn(boolean isOn) {
26:         this.isOn = isOn;
27:     }
28: }
```

```
1: package com.delta.abstraction;
2:
3: import android.util.Log;
4:
5: /**
6:  * Created by learnovate on 2/20/14.
7:  */
8: public class Fan extends Device implements Switchable{
9:
10:
11:     public Fan(){
12:         setDeviceName("FAN");
13:     }
14:
15:     public void breakDevice(){
16:         Log.e(getDeviceName(), "BANG, CRASH!.....oops.");
17:     }
18:
19:     public void turnOn(){
20:         Log.e(getDeviceName(), "whooooooooooooooooooooooooooooosh");
21:     }
22:
23:     public void turnOff(){
24:         Log.e(getDeviceName(), "darn, now its hot and stuffy in here");
25:     }
26: }
```

```
1: package com.delta.abstraction;
2:
3: import android.util.Log;
4:
5: /**
6:  * Created by learnovate on 2/20/14.
7:  */
8: public class Light extends Device implements Switchable{
9:
10:     public Light(){
11:         setDeviceName("LIGHT");
12:     }
13:     @Override
14:     public void breakDevice() {
15:         Log.e(getDeviceName(), "Glass Everywhere!.... i guess its not that bad");
16:     }
17:
18:     public void turnOn(){
19:         Log.e(getDeviceName(), "Now I can see. There are my keys!");
20:     }
21:
22:     public void turnOff(){
23:         Log.e(getDeviceName(), "Ouch, now it's so dark I stubbed my toe!");
24:     }
25: }
```

```
1: package com.delta.abstraction;
2:
3: /**
4:  * Created by learnovate on 2/20/14.
5:  */
6: public class Switch {
7:
8:
9:
10:     public void turnOnSwitchable(Switchable thing){
11:         thing.turnOn();
12:     }
13:
14:     public void turnOffSwitchable(Switchable thing){
15:         thing.turnOff();
16:     }
17:
18: }
```

```
1: package com.delta.abstraction;
2:
3: /**
4:  * Created by learnovate on 2/20/14.
5:  */
6: public interface Switchable {
7:
8:     public void turnOn();
9:     public void turnOff();
10:
11: }
```

1	abstraction/src/main/java/com/delta/abstraction/AbstractionActivity.java	2 pages	53 lines	14/09/18 15:58:40
2	abstraction/src/main/java/com/delta/abstraction/Device.java	1 pages	28 lines	14/09/18 15:58:39
3	abstraction/src/main/java/com/delta/abstraction/Fan.java	1 pages	26 lines	14/09/18 15:58:40
4	abstraction/src/main/java/com/delta/abstraction/Light.java	1 pages	25 lines	14/09/18 15:58:40
5	abstraction/src/main/java/com/delta/abstraction/Switch.java	1 pages	18 lines	14/09/18 15:58:40
6	abstraction/src/main/java/com/delta/abstraction/Switchable.java	1 pages	11 lines	14/09/18 15:58:40