

```
1  import java.io.File;
2  import java.util.ArrayList;
3
4  public interface CompressionAlgorithm {
5      public void compressFiles(ArrayList<File> files);
6  }
7
8  class ZipCompressionAlgorithm implements CompressionAlgorithm {
9      public void compressFiles(ArrayList<File> files) {
10         System.out.println("using ZIP algorithm");
11     }
12 }
13
14 class RarCompressionAlgorithm implements CompressionAlgorithm {
15     public void compressFiles(ArrayList<File> files) {
16         System.out.println("using RAR algorithm");
17     }
18 }
19
20 class CompressionContext {
21     private CompressionAlgorithm algorithm;
22
23     // This can be set at runtime by application preferences
24     public void setCompressionAlgorithm(CompressionAlgorithm algorithm) {
25         this.algorithm = algorithm;
26     }
27
28     public void createArchive(ArrayList<File> files) {
29         algorithm.compressFiles(files);
30     }
31 }
32
33 class Client {
34     public static void main(String[] args) {
35         CompressionContext ctx = new CompressionContext();
36         // We could assume context is already set by preferences
37         ArrayList<File> list = new ArrayList<>();
38         // Run compression algorithm due to setted algorithm
39         ctx.setCompressionAlgorithm(new RarCompressionAlgorithm());
40         ctx.createArchive(list);
41         ctx.setCompressionAlgorithm(new ZipCompressionAlgorithm());
42         ctx.createArchive(list);
43     }
44 }
45
```

Pattern STRUTTURALI	Pattern CREAZIONALI	Pattern COMPORAMENTALI
<input type="checkbox"/> Adapter <input type="checkbox"/> Decorator <input type="checkbox"/> Composite	<input type="checkbox"/> Abstract Factory <input type="checkbox"/> Singleton	<input type="checkbox"/> Observer <input type="checkbox"/> State <input type="checkbox"/> Visitor <input checked="" type="checkbox"/> Strategy