



```
1 package Stage_pattern;
2
3 public interface Encryptor {
4     public String encrypt(String original);
5 }
6
7
```

```
1 package Stage_pattern;
2
3 public class CaesarDESEncryptor implements Encryptor {
4
5     @Override
6     public String encrypt(String original) {
7         // TODO 自动生成的方法存根
8         System.out.println("采用凯撒加密法");
9         return original;
10    }
11
12 }
13
```

```
1 package Stage_pattern;
2
3 public class DESDecryptor implements Encryptor {
4
5     @Override
6     public String encrypt(String original) {
7         // TODO 自动生成的方法存根
8         System.out.println("采用DES加密法");
9         return original;
10    }
11
12 }
13
```

```

1 package Stage_pattern;
2
3 public class OurSystem {
4     //系统 客户端类
5     Encryptor encryptor;
6     public void setEncryptor(Encryptor encryptor) {
7         this.encryptor = encryptor;
8     }
9     String target;
10    public OurSystem(Encryptor e) {
11        this.encryptor = e ;
12    }
13    public void encryptUserPW( String orignal){
14        this.target = this.encryptor.encrypt(orignal);
15    }
16 }

```

```

1 package Stage_pattern;
2
3 public class test {
4
5     public static void main(String[] args) {
6         // TODO 自动生成的方法存根
7         //生成加密器
8         CaesarDESEncryptor encryptor1= new CaesarDESEncryptor();
9         DESEncryptor encryptor2 = new DESEncryptor();
10
11         OurSystem s = new OurSystem(encryptor1);
12         s.encryptUserPW("123456");
13         s.setEncryptor(encryptor2);
14         s.encryptUserPW("123456");
15     }
16
17 }
18

```

控制台

<已终止> test [Java 应用程序] C:\Program Files\Java\jdk-11.0.2\bin\javaw.exe
 采用凯撒加密法
 采用DES加密法