

◆ Interfaces:

- ◆ Used to define abstract types
- ◆ Outline a contract for a class
- ◆ Similar to abstract classes containing only public abstract methods
- ◆ Can contain constant fields
- ◆ Can be used as a reference type
- ◆ Essential component of many design patterns

Programming in Java

Developing Java Interfaces

- ◆ `implements` keyword:
 - ◆ Used to implement an interface
- ◆ The following embedded Word document shows how to declare and implement an interface.



Interface

- ◆ Rules for access modifiers:
 - ◆ For methods of an interface:
 - ◆ `abstract public` by default
 - ◆ Cannot be declared as `private` or `protected`

Programming in Java

Constant Fields

- ◆ Interface fields:
 - ◆ `public`, `static`, and `final` implicitly
 - ◆ Must be constants
- ◆ The following code snippet shows how to declare a constant field in an interface:

```
public interface ElectronicDevice
{
    public static final String WARNING =
    "Do not open, shock hazard";
    public void turnOn();
    public void turnOff();
}
```