Book 3

Chap 5

p299

Using Abstract Classes and Interfaces

• Using Abstract Classes

```
package Chap05_AbstractClasses_Interfaces;

/* Abstract classes and interfaces both let you declare signatures of methods and fields
that a class implements from class itself;

* Abstract classes through inheritance, interfaces without inheritance;

* Default methods are designed to make interfaces easier to work with;

* One can declare that a method or an entire class is abstract - method has no body;

* Private method can't be instantiated;

* Private method can't be abstract

*

//Page300

public abstract class Ball {

//class considered to be abstract as it contains
//at least one abstract method

public abstract int hit(int batSpeed);

//int declared an abstract method,
//returns int value and accepts int parameter
}
```

```
package Chap05_AbstractClasses_Interfaces;

/* Class is a subclass of Ball
* When subclassing an abstract class, subclass is to provide implementation for each abstract method in the abstract class;
*/
public class Baseball extends Ball {

@Override
public int hit(int batSpeed) {

return(batSpeed);

// code that implements the hit method goes here
}

}
```