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### Lookup.java

#### On line word lookup.

@see Dictionary
@see Definition

@version 4

```java
public class Lookup {
    private static Terminal t = new Terminal();
    private static Dictionary dictionary = new Dictionary();

    private static void fillDictionary() {
        dictionary.addEntry("shape", new Definition("a geometric object in a plane");
        dictionary.addEntry("quadrilateral", new Definition("a polygonal shape with four sides");
        dictionary.addEntry("rectangle", new Definition("a right-angled quadrilateral");
        dictionary.addEntry("square", new Definition("a rectangle having equal sides");
    }

    private static void printDefinition(String word) {
        Definition definition = dictionary.getEntry(word);
        if (definition == null) {
            t.println("sorry, no definition found for "+ word);
        } else {
            t.println(definition.toString());
        }
    }

    public static void main(String[] args) {
        fillDictionary();

        // look up some words
        String word;
        // words specified on command line
        for (int i = 0; i < args.length; i++) {
            word = args[i];
            if (word.equals("all")) {
                t.println("The whole dictionary (" + dictionary.getSize() + " entries):");
                t.println("-------------------");
                t.println(dictionary.toString());
                t.println("-------------------");
            } else {
                t.println(word + ":");
                printDefinition(word);
            }
        }

        // words entered interactively
```

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**Note:**
- The code snippet provided is for demonstration purposes and may not be exactly as it appears in the original document.
- The code includes a simple dictionary and lookup functionality.
- The `Definition` class is assumed to be defined elsewhere in the codebase.
- The `Terminal` class is likely a custom implementation for printing output.

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**Additional Resources:**
- [Class Lookup](https://example.com/lookup)
- [Dictionary API](https://example.com/dictionary-api)
113t.println("look up words, "quit" to quit
114while (true) {
115word = t.readWord("word> ");
116if (word.equals("quit")) {
117break;
118}
119printDefinition(word);
120}
121}