```
import java.util.Map;
import java.util.HashMap;
import java.util.Iterator;

/**
 * Demonstrate the HashMap class, and an Iterator.
 *
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 * 2004/02/09 03:33:38 ian Exp $
 */
public class HashMapDemo {

        public static void main(String[] argv) {

                // Construct and load the hash. This simulates loading a
                // database or reading from a file, or wherever the data is.

                Map<String, String> map = new HashMap<String, String>();

                // The hash maps from company name to address.
                // In real life this might map to an Address object...
                map.put("Adobe", "Mountain View, CA" );
                map.put("IBM", "White Plains, NY" );
                map.put("Learning Tree" , "Los Angeles, CA" );
                map.put("Microsoft", "Redmond, WA" );
                map.put("Netscape", "Mountain View, CA" );
                map.put("O'Reilly", "Sebastopol, CA" );
                map.put("Sun", "Mountain View, CA" );

                // Two versions of the "retrieval" phase.
                // Version 1: get one pair's value given its key
                // (presumably the key would really come from user input):
                String queryString = "O'Reilly";
                System.out.println("You asked about "  + queryString + ".");
                String resultString = map.get(queryString);
                System.out.println("They are located in: "  + resultString);
                System.out.println();

                // Version 2: get ALL the keys and pairs
                // (maybe to print a report, or to save to disk)
                Iterator<String> k = map.keySet().iterator();
                while (k.hasNext()) {
                        String key = k.next();
                        System.out.println("Key " + key + "; Value "  + map.get(key));
                }
        }
}
```