1. Hashmaps:

import java.util.HashMap;

import java.util.Map;

import java.util.Iterator;

import java.util.Set;

public class Details {

public static void main(String args[]) {

/\* This is how to declare HashMap \*/

HashMap<Integer, String> hmap = new HashMap<Integer, String>();

/\*Adding elements to HashMap\*/

hmap.put(12, "Chaitanya");

hmap.put(2, "Rahul");

hmap.put(7, "Singh");

hmap.put(49, "Ajeet");

hmap.put(3, "Anuj");

/\* Display content using Iterator\*/

Set set = hmap.entrySet();

Iterator iterator = set.iterator();

while(iterator.hasNext()) {

Map.Entry mentry = (Map.Entry)iterator.next();

System.out.print("key is: "+ mentry.getKey() + " & Value is: ");

System.out.println(mentry.getValue());

}

/\* Get values based on key\*/

String var= hmap.get(2);

System.out.println("Value at index 2 is: "+var);

/\* Remove values based on key\*/

hmap.remove(3);

System.out.println("Map key and values after removal:");

Set set2 = hmap.entrySet();

Iterator iterator2 = set2.iterator();

while(iterator2.hasNext()) {

Map.Entry mentry2 = (Map.Entry)iterator2.next();

System.out.print("Key is: "+mentry2.getKey() + " & Value is: ");

System.out.println(mentry2.getValue());

}

}

}