```java
3    import java.util.HashMap;
4    import java.util.Iterator;
5    import java.util.Map;
6    import java.util.Map.Entry;
7    import java.util.Set;
8
9    class State {
10      //write your code here
11      HashMap<String,String> stateMap;
12      public State(){
13          stateMap = new HashMap<String, String>();
14      }
15      public HashMap<String,String> addStateCapital(String stateName,String capital){
16          stateMap.put(stateName,capital);
17          return stateMap;
18      }
19      public String getCapital(String stateName){
20          if(stateMap.containsKey(stateName)){
21              return stateMap.get(stateName);
22          }
23          return null;
24      }
25      public String getState(String capitalName){
26          for(Map.Entry<String,String> entry:stateMap.entrySet()){
27              if(capitalName.equals(entry.getValue())){
28                  return entry.getKey();
29              }
30          }
31          return null;
32      }
33      public HashMap<String,String> swapKeyValue(){
34          HashMap<String,String> worldMap=new HashMap<String,String>();
35          for(Map.Entry<String,String> entry:stateMap.entrySet()){
36              worldMap.put(entry.getValue(),entry.getKey());
37      }
```

```java
20          if(stateMap.containsKey(stateName)){
21              return stateMap.get(stateName);
22          }
23          return null;
24      }
25      public String getState(String capitalName){
26          for(Map.Entry<String,String> entry:stateMap.entrySet()){
27              if(capitalName.equals(entry.getValue())){
28                  return entry.getKey();
29              }
30          }
31          return null;
32      }
33      public HashMap<String,String> swapKeyValue(){
34          HashMap<String,String> worldMap=new HashMap<String,String>();
35          for(Map.Entry<String,String> entry:stateMap.entrySet()){
36              worldMap.put(entry.getValue(),entry.getKey());
37          }
38          return worldMap;
39      }
40      @Override
41      public String toString() {
42          return "State{"+
43              "stateMap="+stateMap+
44              '}';
45      }
46
47  }
48  public class Source {
49      public static void main(String args[]) {
50          /* Enter your code here. Print output to STDOUT */
51          State st=new State();
52          st.stateMap.put("Manipur","Imphal");
53          st.stateMap.put("UP","Lucknow");
54          System.out.println(st.getCapital("Manipur"));
55          System.out.println(st.getState("UP"));
56          System.out.println(st.swapKeyValue());
```