Environment.java

```
1 package other;
 3 import java.util.HashMap;
 7 public class Environment {
 9
      private Environment parent;
10
11
      private HashMap<String, IValue> map;
12
13
      public Environment(){
14
           this.parent = null;
15
           map = new HashMap<String, IValue>();
16
17
18
      public Environment(Environment parent) {
19
          this.parent = parent;
20
          map = new HashMap<String, IValue>();
21
      }
22
23
      public Environment beginScope() {
24
           Environment newEnv = new Environment(this);
25
           return newEnv;
26
      }
27
      public void assoc(String key, IValue value) {
28
29
           if(map.put(key, value)!=null)
30
              throw new Error("Variable already declared");
31
      }
32
33
      public IValue find(String key) {
34
          Object value = map.get(key);
35
           if(value == null) {
36
               if(this.parent == null) {
37
                   throw new Error("Variable (" + key +") not Declared");
38
39
                   return parent.find(key);
40
41
           }
42
          return (IValue)value;
43
44
45
      public Environment endScope() {
46
           return parent;
47
48
49 }
50
```