```
1 import java.io.File;
 2 import java.io.IOException;
 3
4 public class Main {
 5
 6
       public static void main(String□ args) {
 7
           NeuralNet xor = new NeuralNet();
           xor.initializeTrainSet();
 8
9
10
           //train the network for 100 trials
11
           int epoch = 0;
12
           for(int i = 0; i < 100; i++) {
               xor.initializeWeights();
13
14
               epoch += xor.train();
15
           }
16
           epoch /= 100;
17
           System.out.println("avg epoch " + epoch);
18
           xor.saveError();
19
20
           //save and load weights
21
           xor.save(new File("weights.txt"));
22
           try {
23
               xor.load("weights.txt");
24
           } catch (IOException e) {
25
               e.printStackTrace();
26
           }
27
       }
28 }
29
30
```