```
1 import main.NeuralNet;
2
3 import java.io.File;
4 import java.io.IOException;
5 import java.util.Objects;
6 import java.util.Scanner;
7
8 public class Run {
10
       public static void main(String[] args) throws
11
   IOException {
12
           double[][] inputBinary = new double[][]{{0, 0}, {0}
   , 1}, {1, 0}, {1, 1}};
           double[] targetBinary = new double[]{0, 1, 1, 0};
13
14
           double[][] inputBipolar = new double[][]{{-1, -1}
  }, {-1, 1}, {1, -1}, {1, 1}};
15
           double[] targetBipolar = new double[]{-1, 1, 1, -1
  };
16
           Scanner s = new Scanner(System.in);
17
18
           while (true) {
19
               System.out.println(
        20
               System.out.println("argMomentumTerm: ");
21
               double argMomentumTerm = Double.parseDouble(s.
  nextLine());
22
               NeuralNet neuralNet;
23
               System.out.println("Bipolar? (Y/N)");
24
               String isBipolar = s.nextLine();
25
               if (!"YN".contains(isBipolar)) {
26
                   System.out.println("Illegal command");
27
                   continue;
28
               int epochCount = 0;
29
30
               if (isBipolar.equals("Y")) {
31
                   neuralNet = new NeuralNet(2, 4, 0.2,
   argMomentumTerm, -1, 1);
32
                   System.out.println("Bipolar starts running
   .");
33
                   epochCount = neuralNet.train(inputBipolar,
   targetBipolar);
34
               } else {
35
                   neuralNet = new NeuralNet(2, 4, 0.2,
  argMomentumTerm, ⊙, 1);
36
                   System.out.println("Binary starts running."
   );
37
                   epochCount = neuralNet.train(inputBinary,
```

```
37 targetBinary);
38
39
               System.out.printf("The number of epoch is: %d \
   n", epochCount);
40
           }
       }
41
42 }
43
```