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The code is:
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import java.util.Random;
class Mouse {
   // Attribute is put into the private area
   private int legs;
   // Constructor
   public Mouse(int a){ legs = a; }
   // Get method
   public int getLegs(){ return legs; }
   // Set method
   public void setLegs(int a){ legs = a; }
}
//test program
public class TestMouse {
   // get a random number less than 5
   private static int getRandomNum()
   {
          Random rand = new Random(); //instance of random class
          int upperbound = 5;
          return rand.nextInt(upperbound);
   }
  public static void main (String args[]) {
      Mouse jerry = new Mouse(4);
      Mouse mickey = new Mouse(4);
      for (;;){
          jerry.setLegs(getRandomNum());
          mickey.setLegs(getRandomNum());
          if (jerry.getLegs() == 4 && mickey.getLegs() < 4){
               System.out.println("the winner is jerry");
               System.out.println("the legs of the loser mickey are " + mickey.getLegs());
               break;
          }
          else if (jerry.getLegs() < 4 && mickey.getLegs() == 4){
               System.out.println("the winner is mickey");
               System.out.println("the legs of the loser jerry are " + jerry.getLegs());
               break;
          }
          else if (jerry.getLegs() < 4 && mickey.getLegs() < 4){
               System.out.println("the legs of the loser jerry are " + jerry.getLegs());
```

```
System.out.println("the legs of the loser mickey are " + mickey.getLegs());
break;
}
}
}
```







