

```
1  import java.util.ArrayList;
2
3  public class Tutor extends Applicant
4  {
5      String address;
6      String phone;
7      ArrayList<Tutorial> tutorials;
8
9      public Tutor(String eNo, String name, String position, String address,
10                  String phone)
11      {
12          super(eNo, name, position);
13          this.address = address;
14          this.phone = phone;
15          this.tutorials = new ArrayList<Tutorial>();
16      }
17
18      public void assign(Tutorial tutorial)
19          throws ClashException, PreExistException
20      {
21          if(tutorial.getStaff() != null)
22          {
23              throw new PreExistException("Tutorial already has a tutor "
24              + "assigned");
25          }
26          int i = 0;
27          while(i < tutorials.size())
28          {
29              Tutorial next = tutorials.get(i);
30              if(next.getDay() == tutorial.getDay())
31              {
32                  if(overlap(tutorial.getStart(), tutorial.getEnd(),
33                  next.getStart(), next.getEnd()))
34                  {
35                      throw new ClashException("Tutor is already assigned a "
36                      + "tutorial which classes with this one");
37                  }
38                  ;
39              }
40              i++;
41          }
42          tutorials.add(tutorial);
43          tutorial.setStaff(this);
44      }
45
46      public String getPhone()
47      {
48          return phone;
49      }
50
51      ArrayList<Tutorial> getTutorials()
52      {
53          return tutorials;
54      }
55  }
```