

```
1  import java.util.ArrayList;
2
3  public class Lecturer extends Staff
4  {
5      private String location;
6      ArrayList<Lecture> lectures;
7
8      public Lecturer(String eNo, String name, String position, String location)
9      {
10         super(eNo, name, position);
11         this.location = location;
12         lectures = new ArrayList<Lecture>();
13     }
14
15     public void assign(Lecture lecture) throws ClashException,
16         PreExistException
17     {
18         if(lecture.getStaff() != null)
19         {
20             throw new PreExistException("Lecture is already assigned");
21         }
22         int i = 0;
23         while(i < lectures.size())
24         {
25             Lecture next = lectures.get(i);
26             if(next.getDay() == lecture.getDay())
27             {
28                 if(overlap(lecture.getStart(), lecture.getEnd(),
29                     next.getStart(), next.getEnd()))
30                 {
31                     throw new ClashException("Lecture clash");
32                 }
33             }
34             i++;
35         }
36         lectures.add(lecture);
37         lecture.setStaff(this);
38     }
39
40     ArrayList<Lecture> getLectures()
41     {
42         return lectures;
43     }
44
45     public String toString()
46     {
47         return super.toString() + "\nOffice Location: " + location;
48     }
49 }
50
51
```