```
1 /*******************
 2 * Dalton Nofs
 3 * Login ID: nofs5491
 4 * CS-102, Summer 2017
 5 * Programming Assignment 3
 6 * ConsolePrint class: general use program printer
 8
 9 public class ConsolePrint
10 {
11
      String buffer = ""; // Buffer string for data to be sent to console
12
      /********************
13
      * Method: printDatabase()
14
15
      * Purpose: writes out the entire database
16
17
      * Parameters: Database: printBase: database to be printed
      * Returns: Void: nothing will be returned
18
      *************************************
19
      public void printDatabase(Database printBase) throws IllegalArgumentException
20
21
22
          int arrayCount = 0; // local arraycount for cycling through the database
23
          arrayCount = printBase.getArraySize();
24
25
          // Check the status of the database
26
         if(arrayCount <= 0)</pre>
27
          {
28
             throw new IllegalArgumentException("Database is empty!\n");
29
          }
30
31
          // Loop semesters
          for(int index=0; index<arrayCount; index++)</pre>
32
33
34
             int numCourses = printBase.get(index).size();
35
             // Loop courses
             for(int index2=0;index2<numCourses;index2++)</pre>
36
37
38
                 // Add the class attributes to the buffer
39
                 buffer += printBase.getArrayPosition(index,index2).getCourseNumber() + ": " +
                          printBase.getArrayPosition(index,index2).getCourseTitle() + " (" +
40
41
                          printBase.getArrayPosition(index,index2).getCreditCount() + "). "+
                          42
                                                                                 + " " +
43
                          printBase.getArrayPosition(index,index2).getYearTaken()
                          printBase.getArrayPosition(index,index2).getCourseGrade() + "" ;
44
45
46
                 // Check to see if excluded from GPA calc
47
                 if(printBase.getArrayPosition(index,index2).getExcludeFlag().equals("Y") ||
48
                    printBase.getArrayPosition(index,index2).getExcludeFlag().equals("y"))
49
                     buffer += " (excluded).\n";
50
51
                 else{buffer += ".\n";}
52
53
54
55
          System.out.println(buffer); // Print the entire database
          buffer = ""; // clear the buffer
56
57
58 }
```

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