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COE312 – Quiz 1

Time: 45 minutes

Total Points: 10

**The quiz open book and notes and you can use the Internet. You are not allowed to consult other individuals or your classmates.**

PLEASE UPLOAD YOUR ANSWER USING THIS **WORD** FILE. DO NOT UPLOAD ANY ZIPPED OR PDF FILE. ONE WORD FILE ONLY.

The question(s) have been written in a manner such that it is not possible for two students to have the same solution. Therefore, please refrain from the temptation of copying code and changing order of and names of variables, etc. AUS code of conduct will be strictly enforced, and no violation will be tolerated as per AUS policy. Please note that the AUS code does not discriminate between who copied from whom so it is not advisable to share your solution.

**Q1.** (10 points) Develop a Java class hierarchy that can help keep track of music tracks. The classes must incorporate all appropriate properties of a music track.

You must run and provide output on the following program (without any changes to the program). You are not allowed to make any changes to this program.

**import** java.util.Date;

**public** **class** Driver {

**public** **static** **void** main(String[] args) {

Member [] ms =

{**new** Member("Roger Waters",77),

**new** Member("Bob Klos",76),

**new** Member("Nick Mason",77),

**new** Member("David Gilmore", 77)};

Band b = **new** Band("Pink Floyd",ms);

Track t1 = **new** Track("Comfortably Numb",b, "The Wall", 1979,6.21);

System.***out***.println(t1);

}

}

**Expected Output:**

title:Comfortably Numb

album:The Wall

length:6.21 minutes

released in:1979

band members:

Roger Waters

Bob Klos

Nick Mason

David Gilmore

average age:76.75 years

Please provide 1) formatted code, and 2) screenshots of your running program. Not providing a screenshot (with or without errors) will limit your score to below 3/10.

**Grading Rubric (out of 10 points)**

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| **0-3** | **4-6** | **7-8** | **9-10** |
| Program does not compile or run. OR  Program is not related to the problem at hand. OR  No screenshot is provided. | * Class hierarchy is correct. AND * Most functions and interfaces are implemented somewhat correctly. AND * Some obvious attributes are missing. | * Class hierarchy is correct. AND * Most functions and interfaces are implemented correctly. AND * Some obvious attributes are missing. | * Class hierarchy is correct. AND * All the functions and interfaces are implemented correctly. AND * All the attributes are mentioned. |

**Solution: (Paste formatted code here).**

**Solution: (Paste the screenshots here).**