Java Lab 1

COMP228 – A. Gulaid

General Instructions

- LABS should be completed individually by all the students
- Work on the assignment. Debug, if necessary, till it runs properly.
- Include an opening comment with your full name, the name of the program, the date, and a short description.

Instructions on Submissions & Grading

- Drop the following files in the designated drop box on or before the deadline:

    1. Screen captures of the output of your program.
    2. Your project folder

- **100%** of the mark is based on in-person demo of your solution.
- **MUST demo during the lab session of the week the lab is due [Check your lab drop box for submission due date]**

NOTE: If any of the above items are missing in your submission after due date you will automatically receive Zero for the Lab

Academic Integrity

- **PLAGIARISM** is an Academic Offence
- Doesn't help you learn the course material
- Giant waste of your time and mine
- Causes mark penalties and transcript annotations

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Write a Java application that creates a Java console application to keep records of singers and displays stored record. Follow the following instructions to develop the application:

- Create a class named **Singers** with the following specifications.
- 5 instance variables that would store the following singer data (Use recommended variable naming conventions and appropriate data type for each instance variable):
    - Singer's id
    - Singer's name
    - Singer's address
    - Date of birth
    - Number of albums published
- Two constructors that would allow you to construct Singer object with no arguments and 5 arguments.

- Create Setters and getters for all the instance variables of class Singer. Make sure to have several setters that would allow you to set the values of individual instance variables of the singer object. Also create one setter that would allow you to set all the values of the instance variables at once.

- Create several getters that would allow you to get the current individual values of each instance variables of the Singer object.

- Also create one display function that displays all instance variables of an object one call.

- Create the driver class that would create 1 Singer (singer1) object with the help of the no argument constructor. Display the default values of the instance variables of this object singer1.

- Set the values of each instance variables with the help of setters. Display the values.

Evaluation:

Functionality: Correct implementation of classes (instance variable declarations, constructors, getter and setter methods, etc.)	40%
Testing: Correct implementation of driver classes (declaring and creating objects, calling their methods, interacting with user, displaying results)	40%
Friendly input/output	20%
Total	100%