CSC3001-JAVA Programming

LAB CAT-II

Date: 21-05-2021
Time: 2-3.30 PM

1. Create a class named MusicalComposition that contains fields for title, composer, and year written. Include a constructor that requires all three values and an appropriate display function. The child class NationalAnthem contains an additional field that holds the name of the anthem's nation. The child class constructor requires a value for this additional field. The child class also contains a display function. Write a main() function in class MusicDemo that instantiates objects of each class and demonstrates that the functions work correctly.

(5 marks)

2. Create an Investment class that contains fields to hold the initial value of an investment, the current value, the profit (calculated as the difference between current value and initial value), and the percent profit (the profit divided by the initial value). Include a constructor that requires initial and current values and a display function. Create a House class that includes fields for street address and square feet, a constructor that requires values for both fields, and a display function. Create a HouseThatIsAnInvestment class that inherits from Investment and House. It includes a constructor and a display function that calls the display functions of the parents.

(10 marks)