## 23/11/2023

Lab Exercises CSE110(3) Object Oriented Programming. DSU Fall 2023.

Each exercise is worth 2 points. Extra 2 points reserved for participation. Total 10 points \* Methods that do not have explicitly declared operation may display a simple message.

- 1. Build a Java interface "Batter" with methods hits() and, runs(). Write a subclass "Opener" who is a "Batter" with additional attributes such as *int* score, *String* hand, setscore() and sethand() methods, and a display() method that displays all information. Provide appropriate body for the hits() and, runs() methods in the "Opener" Class. Create 2 different objects, one with right hand and another with left hand and demonstrate use of all methods in a Test Class.
- 2. Build an interface "Bowler" with methods bowls(). Write a subclass "FastBowler" that inherits from "Bowler" and has attributes *double* maxSpeed, *String* hand. Another class "FastMedium" inherits from "FastBowler". Include display methods for all classes. Demonstrate all methods in a Test class.
- 3. Build interfaces "Batter" and "Bowler". Create a class "AllRounder" who is a Batter as well as a Bowler. Include appropriate attributes display methods. Demonstrate use of all methods in a Test Class.
- 4. Build a class "Spinner" that inherits from the "Bowler" class and has its own attributes and a method googly(). Write another class," AllRounder" that inherits from Previously built "Batter" and the "spinner" class. Create an Object "Sakep" and demonstrate use of all attributes in a Test Class.