

Week 9 – Formative worksheet
Collections, Composition & Inheritance

NOTE: Use separate Java source files for each class.

Step 1

Implement a class called **Person** with the properties listed below. Your Person class should have a **constructor** method and should implement a **toString()** method that returns a formatted string that contains the person's name.

Person	
String	name

Step 2

Implement the following classes that **extend** the Person class. Both of these classes should have a **constructor** method and should implement an **overridden** version of the **toString()** method.

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Athlete	
String	club

Employee	
double	salary

Step 3

Implement a class called **PersonCollection** that creates an **ArrayList** that can store Person objects. Add the following data items to the ArrayList.

Object Type	Details
Person	Name: John
Athlete	Name: Ellen Club: Raheny Shamrocks
Employee	Name: Alex Salary: 45000.00

Step 4

Write a method in the **PersonCollection** class to display the contents of the Person ArrayList to screen. Test this method out by calling it in the main() method.

Step 5

Remove "Alex" from the Person ArrayList and display its contents to screen to verify that the item has been removed.