Review: Collection & Object

Develop a Java Console application described as the follows:

1. Declare a class named **Phone** includes private members as follows:

Id: int, **name**: String, **warranty**: int

- Declare constructors and setter getter for the above members
- Override **toString()** method to return all Phone's pieces of information
- 2. Declare an interface **IPhone** including the following methods:
 - -boolean addPhone (Phone phone)
 - -Phone **findPhoneByld** (int id)
 - -Phone **getPhoneBiggestWarranty**()
 - -List<Phone> findPhoneByName (String name)
 - -void printPhoneList ()
- **3**. Declare a **PhoneList** class which inherits the **ArrayList** class and implements **IPhone** interface performs the following functions:
 - -boolean **addPhone** (**Phone** phone) add new phone . If **Id** is not duplicated, return false otherwise return true
 - -Phone **findPhoneById** (int id) return phone by **Id**, if not found return null
 - -Phone **getPhoneBiggestWarranty**() return the phone with the biggest warranty
 - -List<Phone> **findPhoneByName** (String name) return phone list by name (the user only enters a few characters of the name, not case sensitive), if not found return null
 - void **printPhoneList** () print phone list in descending order by **warranty**
- **4**. Declare a **Main** class, this class has a **main** method that will print out the menu to perform the functions as follows by using **PhoneList** class (create a list of 05 phones)

Option 1: Print phone list

Option 2. Add new Phone

Option 3. Find phone by Id

Option 4. Get phone biggest warranty

Option 5. Find phone by name

Option 6: Exit

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