Assignment 2

**Part 1:**

This part of the assignment works fine. The findLeastAndMostExpensiveAircraft method works fine because the way it operates is the following: it takes an array of objects as an argument and searches for the least expensive and most expensive Aircraft object in that array. It does this by iterating through the array and checking if each element is an instance of Aircraft. If it is, it compares the price of that Aircraft object to the current least and most expensive Aircraft objects found so far. If it is less than the current least expensive, it updates the least expensive Aircraft object.

This method works because it correctly identifies Aircraft objects in the input array by checking if each element is an instance of the Aircraft class. It then uses a null check to ensure that the least and most expensive Aircraft objects are initialized properly. The comparison of the price of the Aircraft objects ensures that the correct least and most expensive objects are found.

Part 2:

The reason why the copyTheObjects() method doesn't work is because the Object class doesn't have a copy constructor, giving us an error on line arr2[i] = new Object(arr1[i]); is invalid.

The new Object() statement creates a new instance of the Object class, which is a base class for all other classes in Java. arr2[i] is simply pointing to the same object as arr1[i], not a copy of it.