ICE TASK 3 – Classroom Activity

After learning about sorting algorithms. Create an application that will be able to sort employee data by **department id** and then **employee** **surname.** Please create an Employee class with the following properties.

**Class: Employee [5]**

* Properties for Employee: Department ID (1 to 5) and Employee surname
* Overloaded constructor – pass the 2 parameters and assign them to Employee properties

**Class: Program [15]**

1. Create an array that will store employee surnames (initialise this array with at least 10 surnames)
2. Create a List that will store the employee objects.
3. Generate any 8 department ids to which an employee belongs, and then randomly pick surnames from the array created in **(a)** as employee surname
4. Store at least 8 employee objects inside a List
5. Using bubble sort / any other sorting algorithm, create a method that will sort the List by **Department ID** first and then by **Employee Surname**

Sample data before sort

|  |  |
| --- | --- |
| DEPARTMENT ID | SURNAME |
| 5 | Smith |
| 4 | Lerato |
| 5 | Carol |
| 3 | Kabelo |
| 1 | Jones |
| 3 | James |
| 5 | Bongani |
| 2 | Keith |

Sorted Data

|  |  |
| --- | --- |
| DEPARTMENT ID | SURNAME |
| 1 | Jones |
| 2 | Keith |
| 3 | James |
| 3 | Kabelo |
| 4 | Lerato |
| 5 | Bongani |
| 5 | Carol |
| 5 | Smith |

**\*\*NOTE\*\***

**Only submit the code on note pad. Please do not submit the entire VS project.**