Lab6- Sorting

You can select and do some questions according to your ability. We would like to note you that the more questions you do the better for you in doing final practical and writing exams.

Part 1. **Basic sorting**

ID	Name	Level
A05	Tran Quang	7
A03	Nguyen An	7
A01	Truong Phung	5
A04	Pham Thi Lam	2
A02	Do Trung Ton	5

Based on algorithms given in the lecture notes

1) Create a list of employees (using array) as the above table.

2) Sort the list in ascending and descending order by ID using different sort algorithms (insertion, selection, bubble).

Hint: Use the Employee class, this class should implement the Comparable interface.

Part 2. **Advanced Sorting**

Sort the above list in ascending and descending order by ID using different advanced sort algorithms: heap sort, quick sort, merge sort etc.