**Enhance the MapReduce program of Task 8 (refer session 19, assignment 3) to use multiple reducers for sorting. The driver should accept three additional values: the minimum units sold, the maximum units sold and number of reducers to use. Use units sold as key and company as value. Write a custom partitioner to divide the keys on the basis of range. Take minimum to be 0 and maximum to be 10. Divide them across 2 reducers.**

**LOGIC:**

**The o/p of assignment 7.1 will contain the sales details of all the companies. I’ve used it as input for this assignment.**

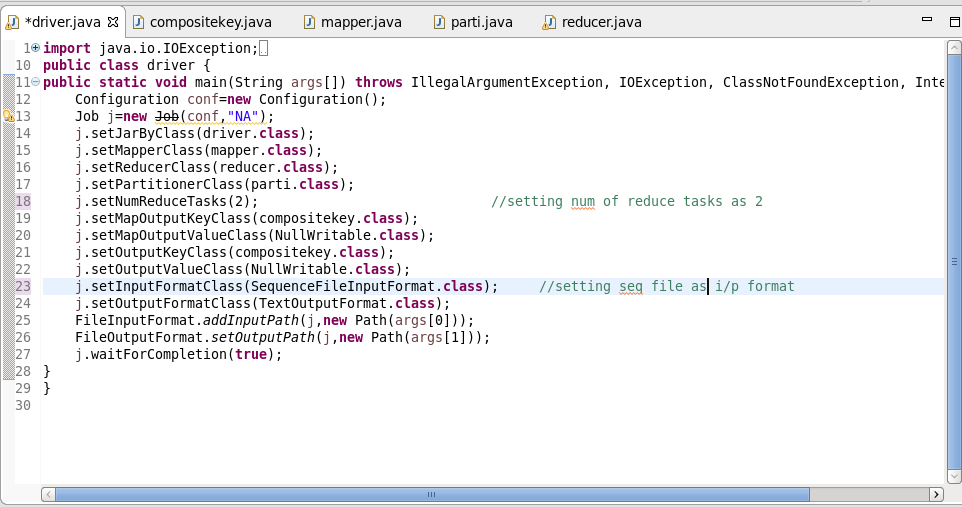
**Since I was asked for minimum and maximum units sold, I’ve used 2 reducers. One reducer is for the companies who have made maximum sales(6-10) another one is for the companies who made minimum sales(0-5).**

**In composite key, I’ve taken company and sales into account and ordered it by**

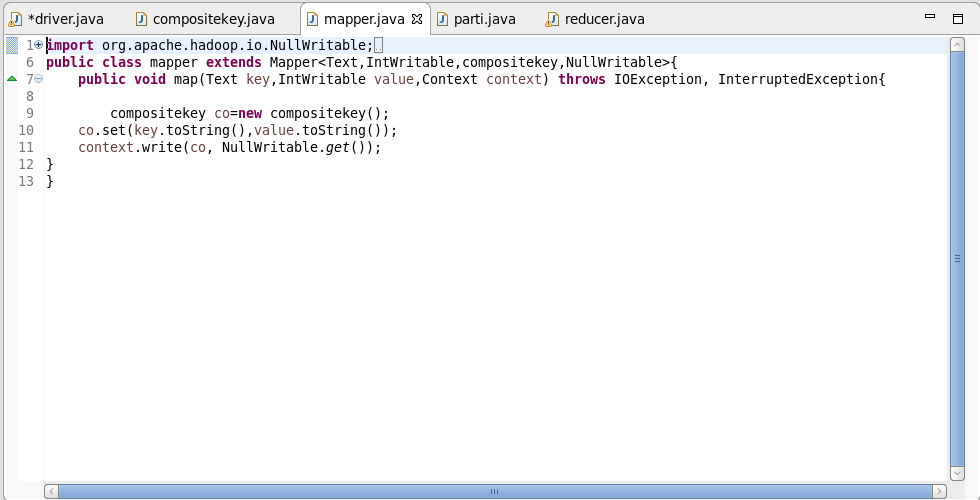
**Descending order using compareTo() method.**

**Since partitioner is used, companies who sold TV’s more than 5 (6-10) will go to a reducer and companies who sold TV’s less than 6 (0-5) will go to a reducer.**

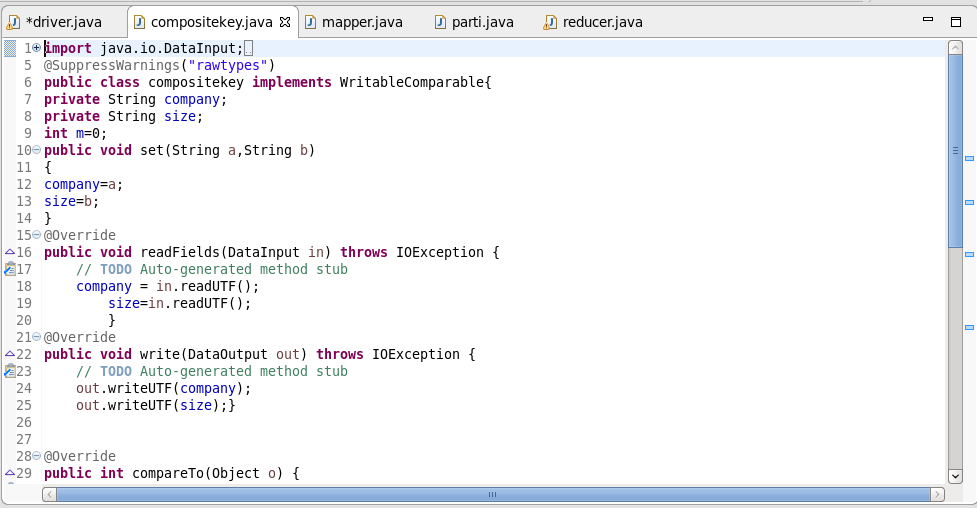
**DRIVER CLASS:**

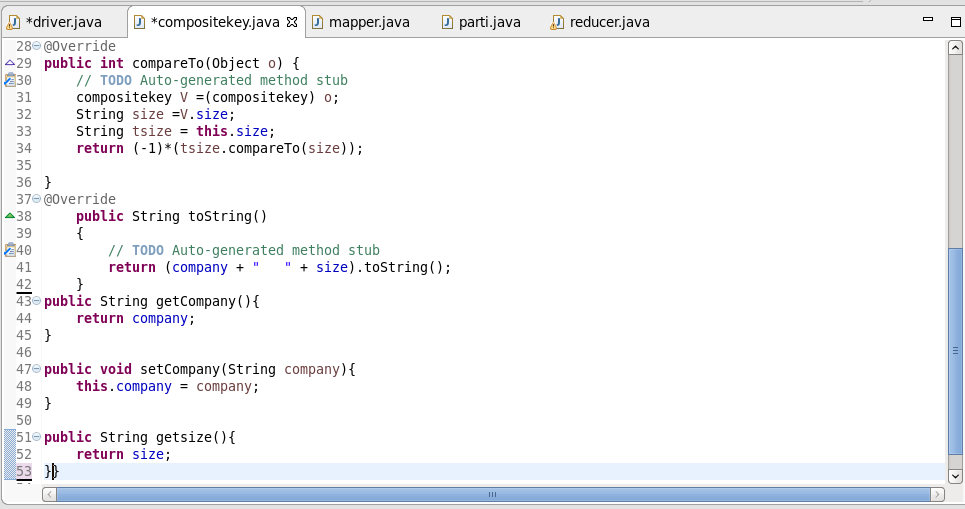
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**MAPPER CLASS:**

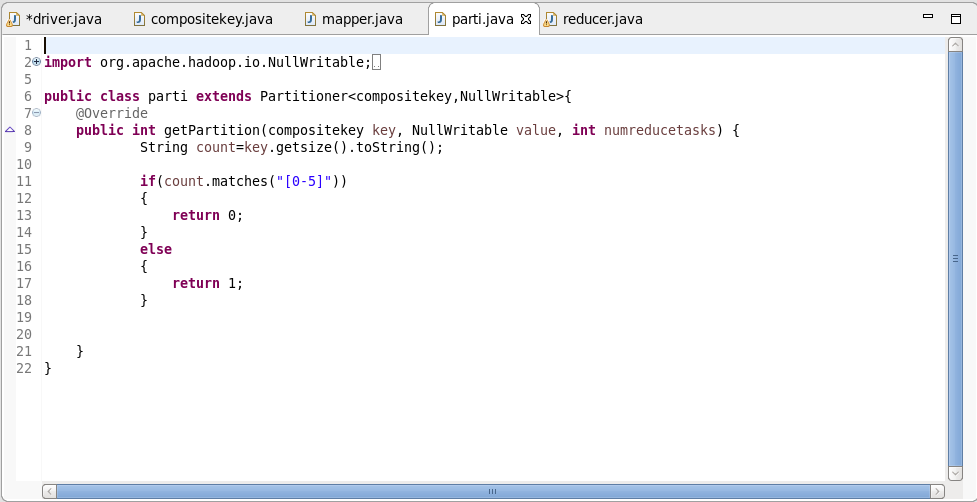
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**COMPOSITEKEY CLASS:**

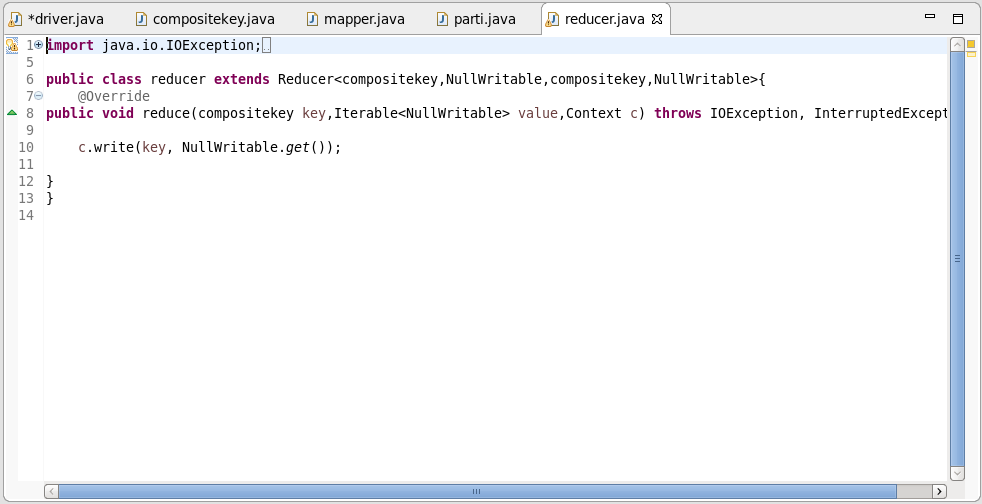
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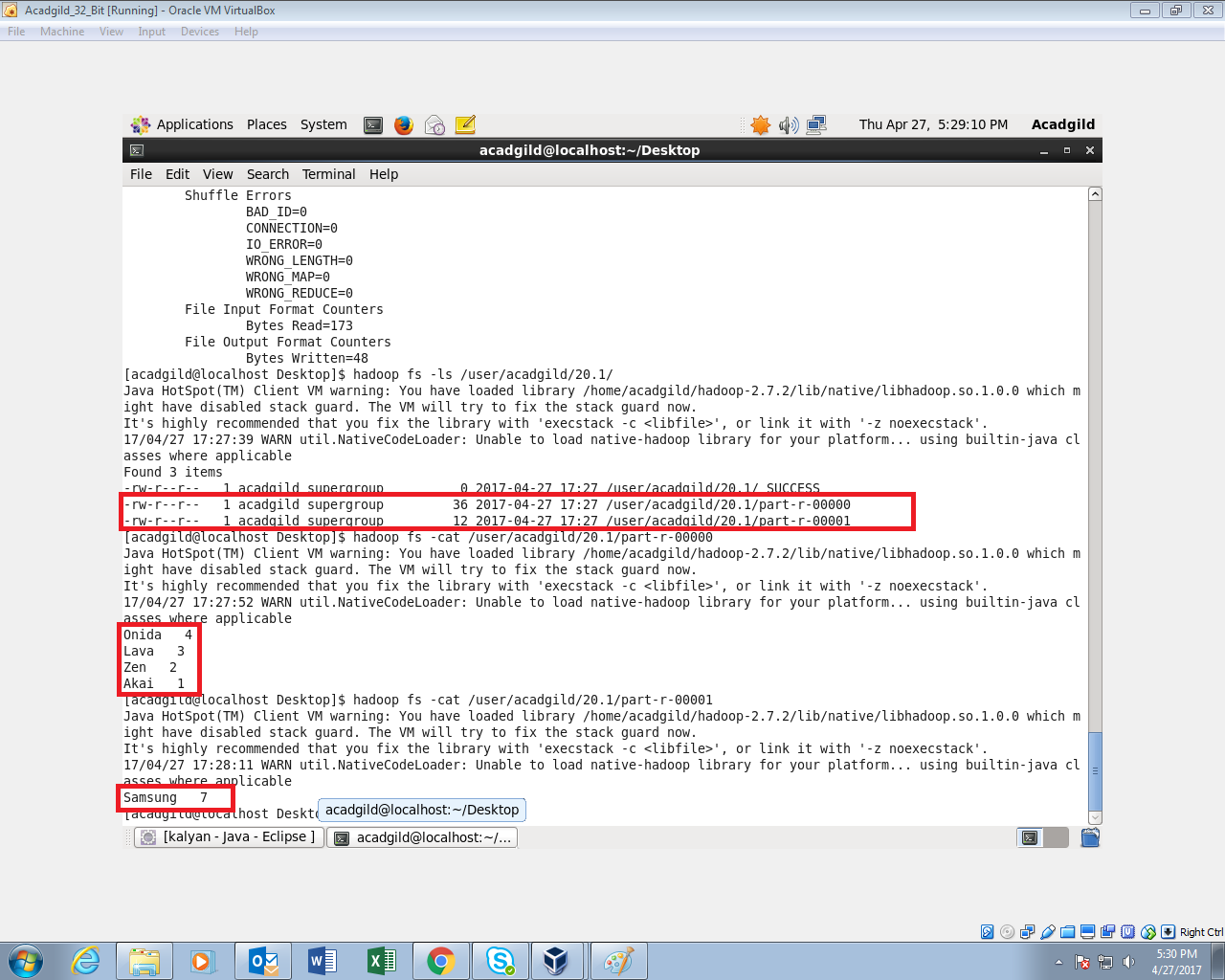
**PARTITIONER CLASS:**

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**REDUCER CLASS:**

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**OUTPUT:**

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