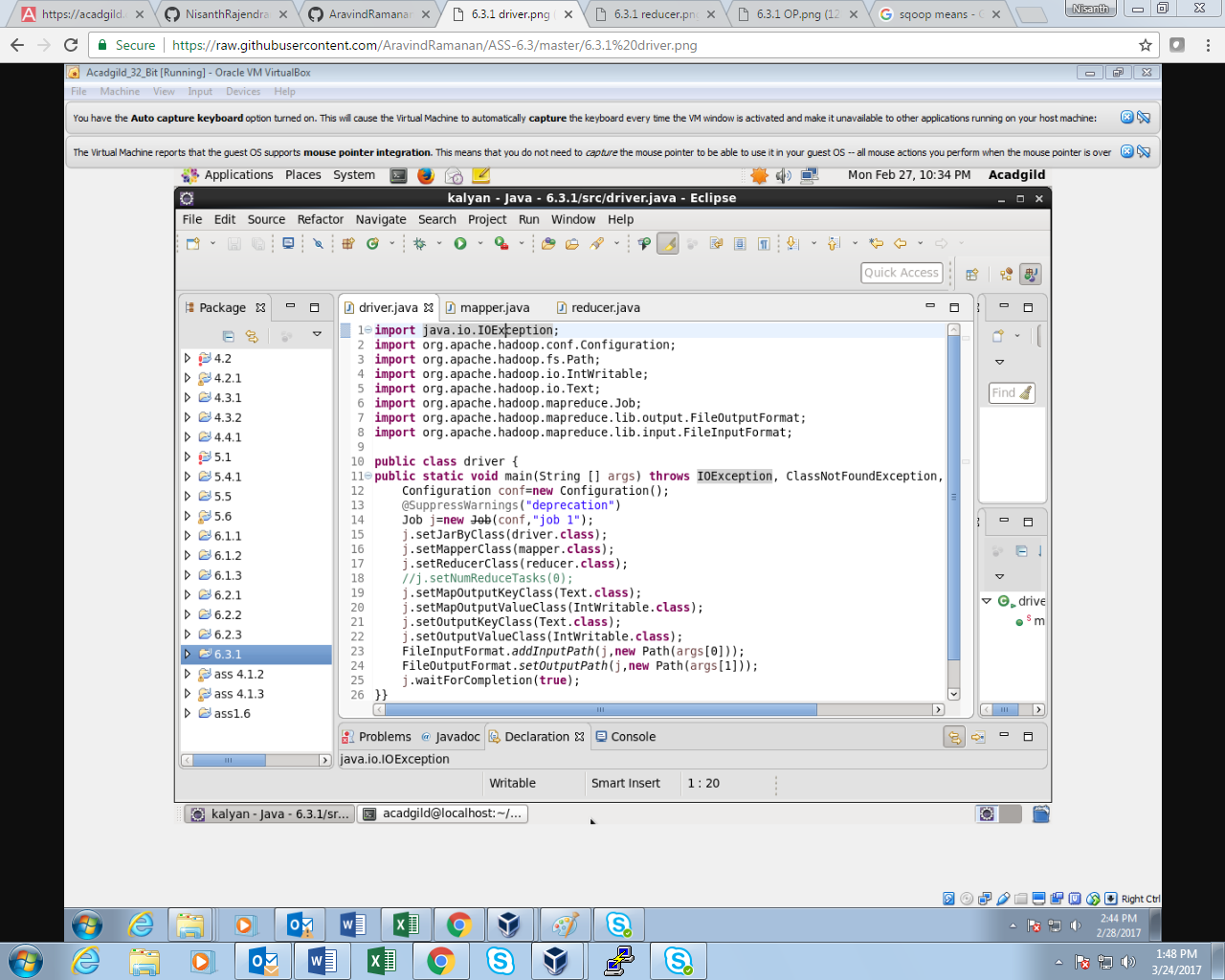
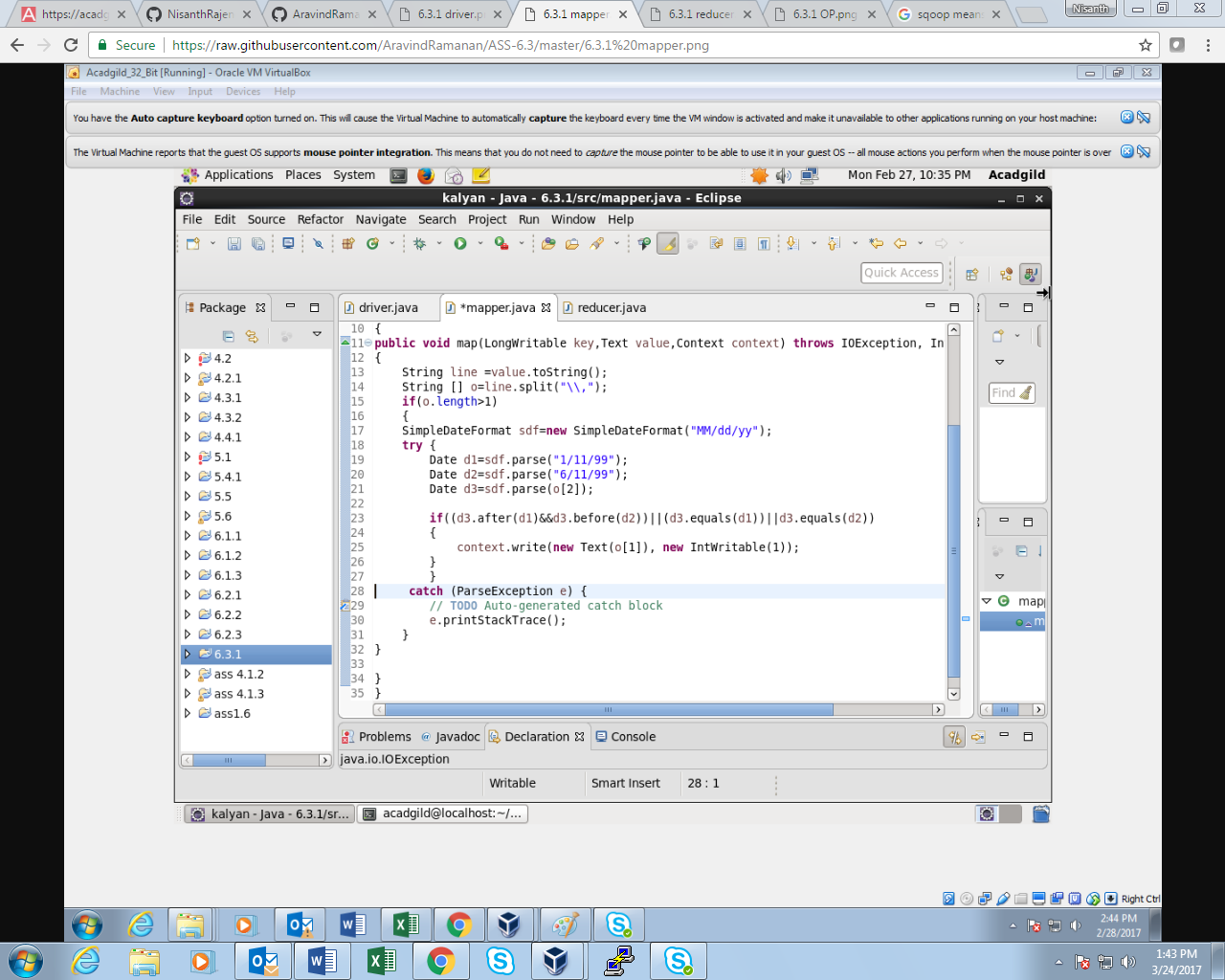
**The first four pages contains solution for the first question and the next four pages contains solution for the second question**

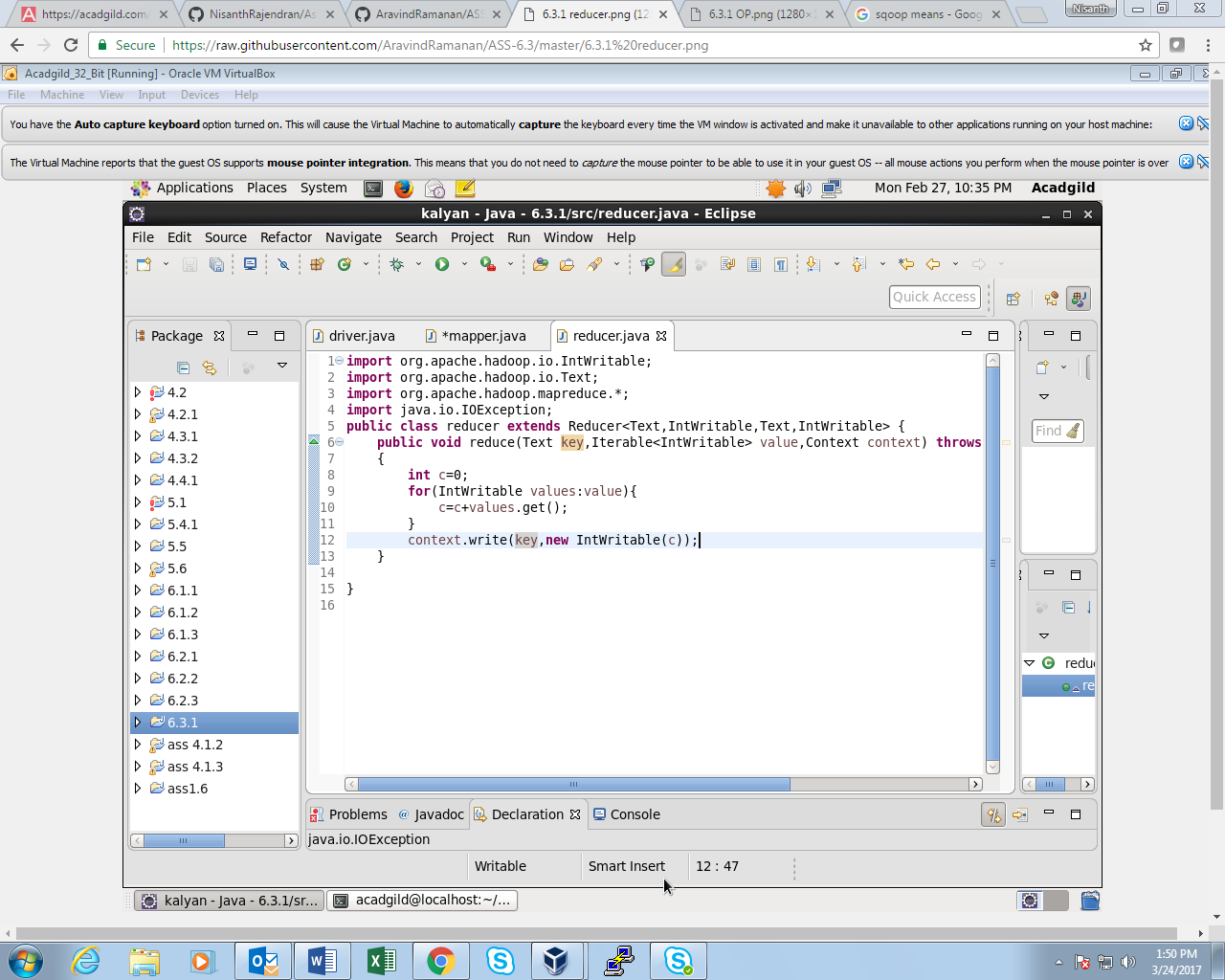
**Driver class:**

****

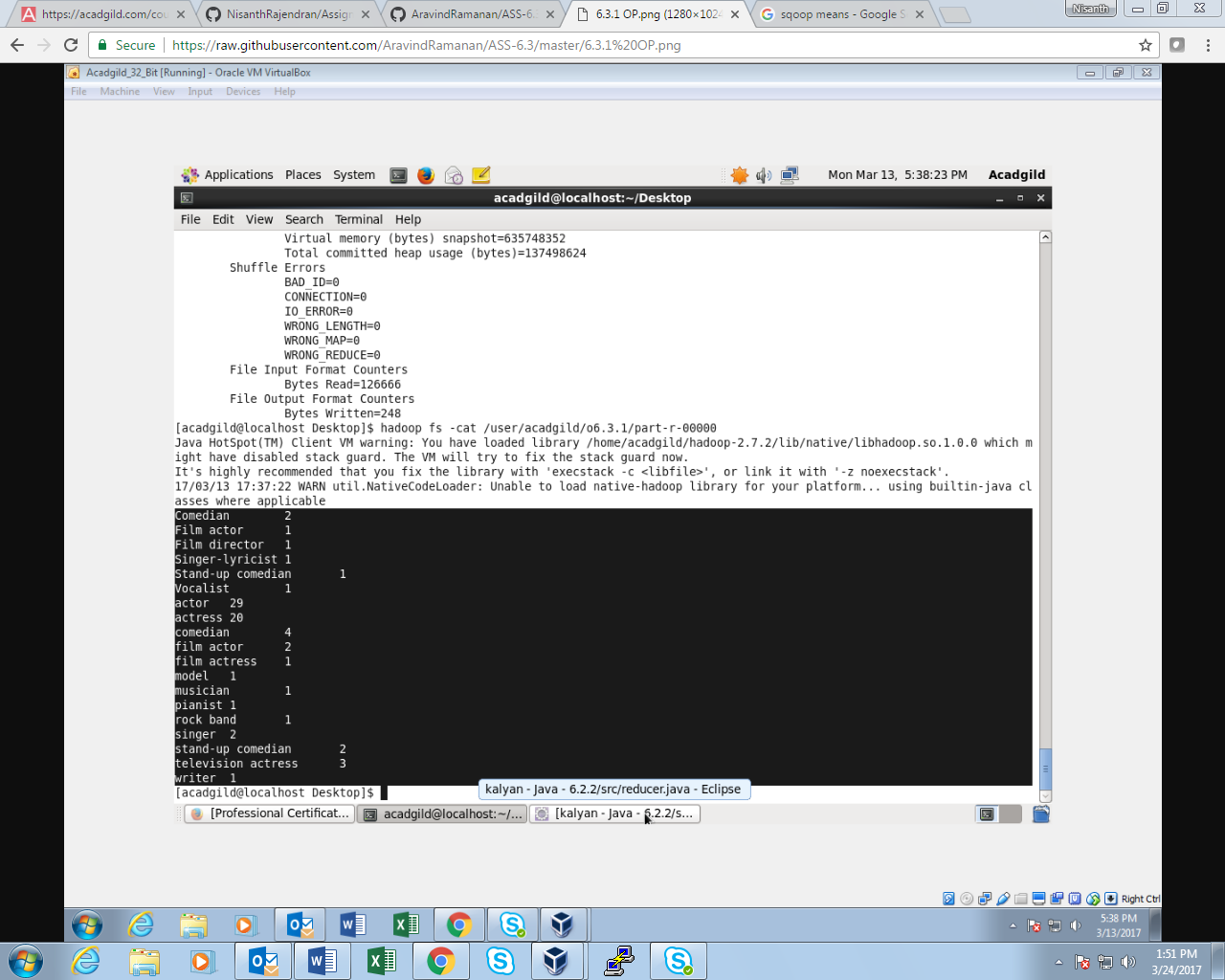
**Mapper class:**

****

**Reducer class:**

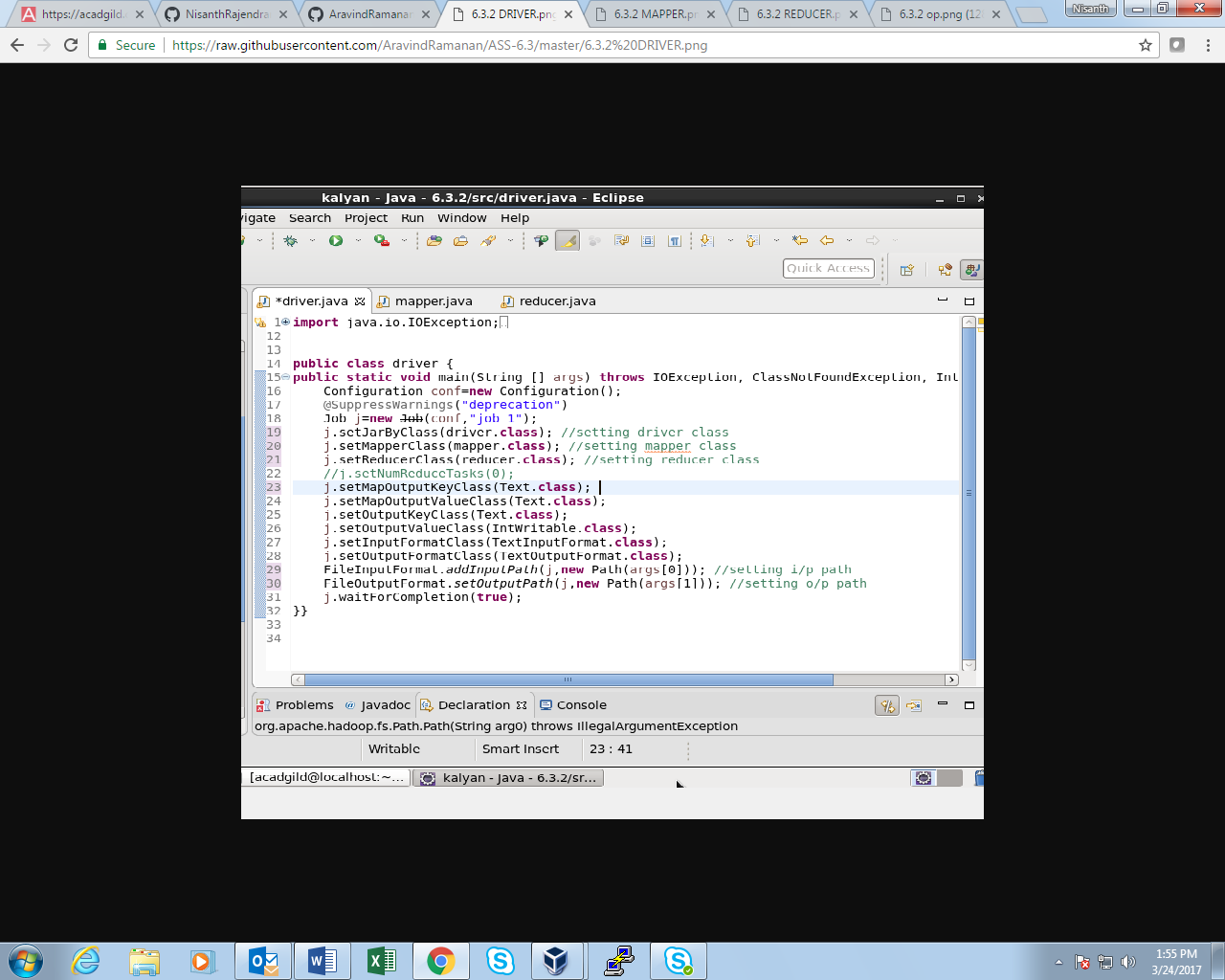
****

**OUTPUT:**

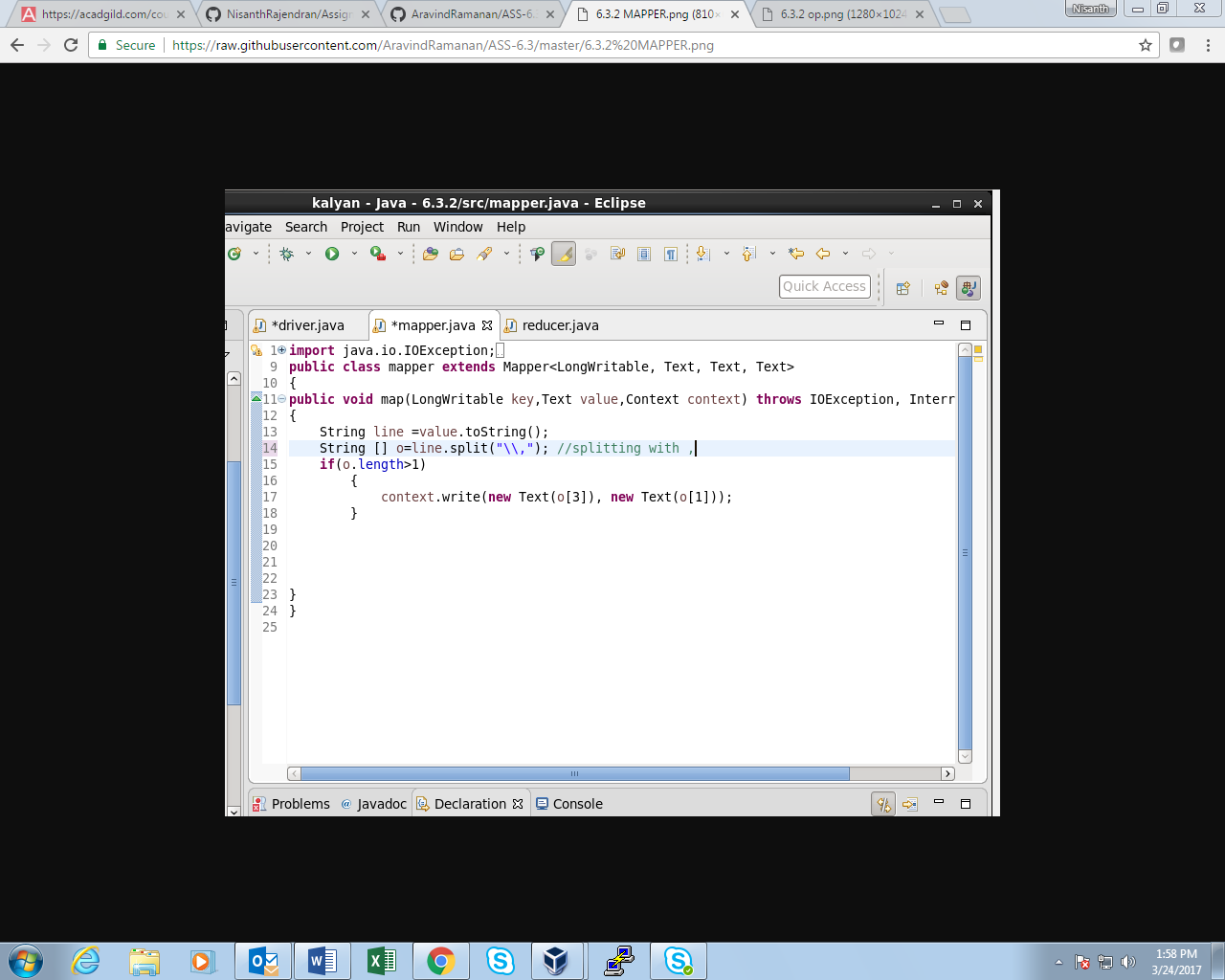
****

**SOLUTION FOR THE SECOND QUESTION:**

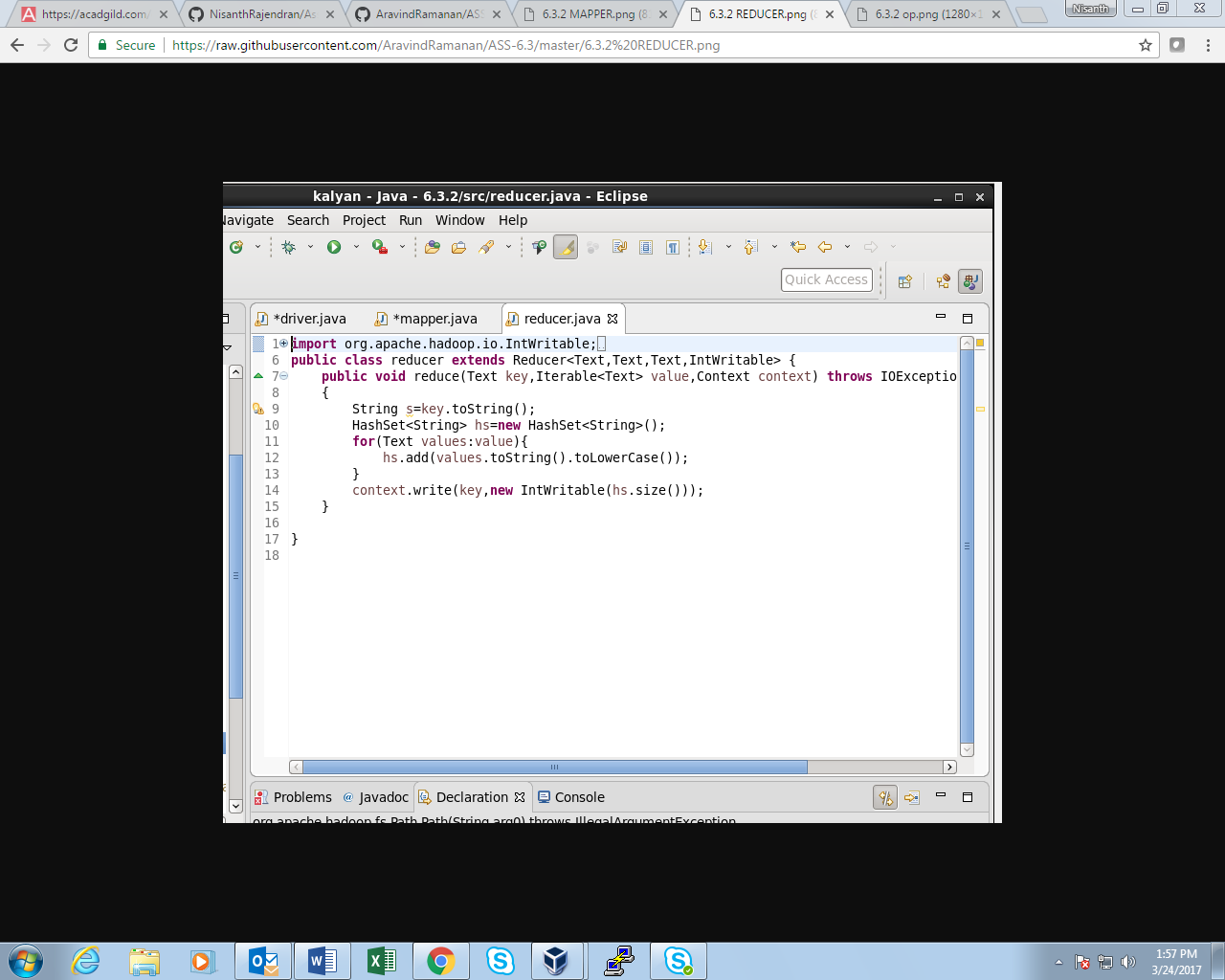
**Driver class:**

****

**Mapper Class:**



**Reducer Class:**



**OUTPUT:**

