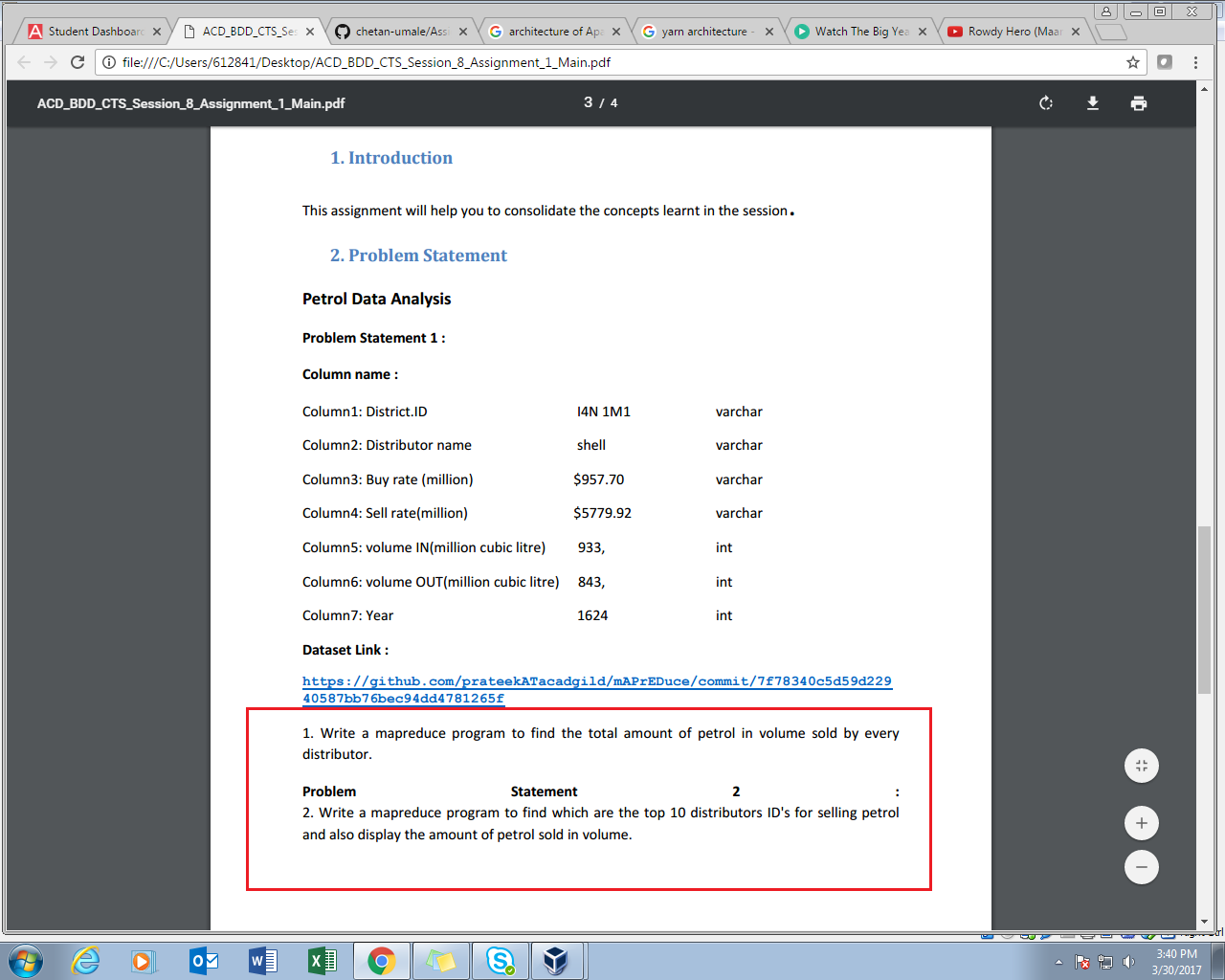
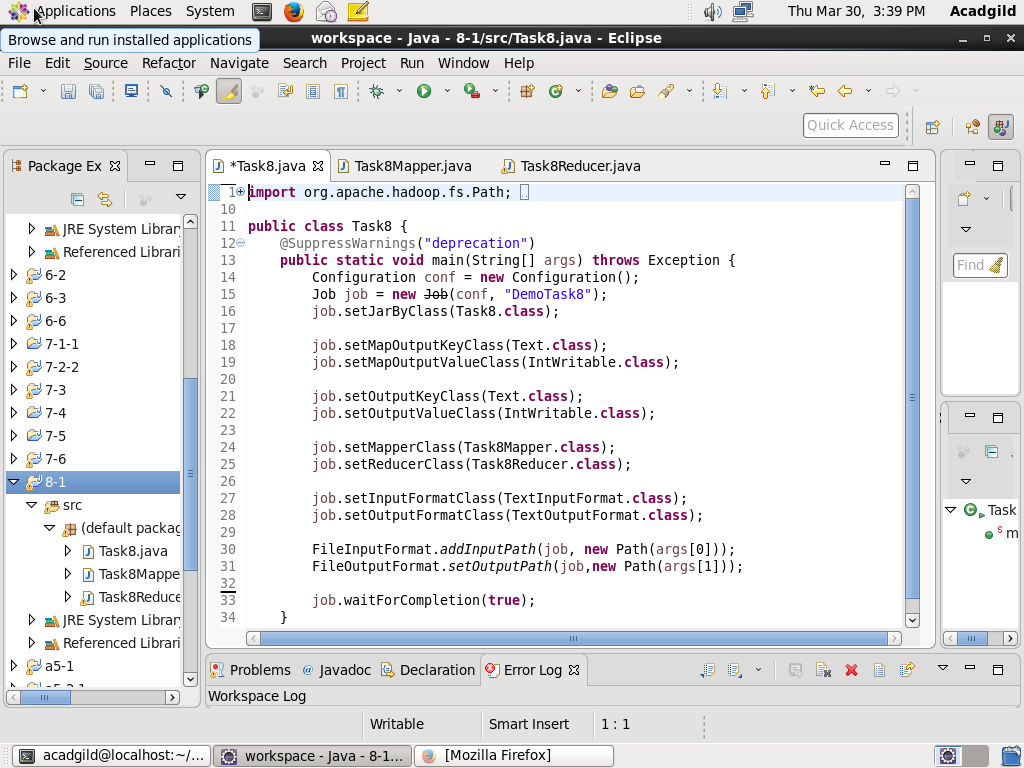
**PROBLEM STATEMENT:**

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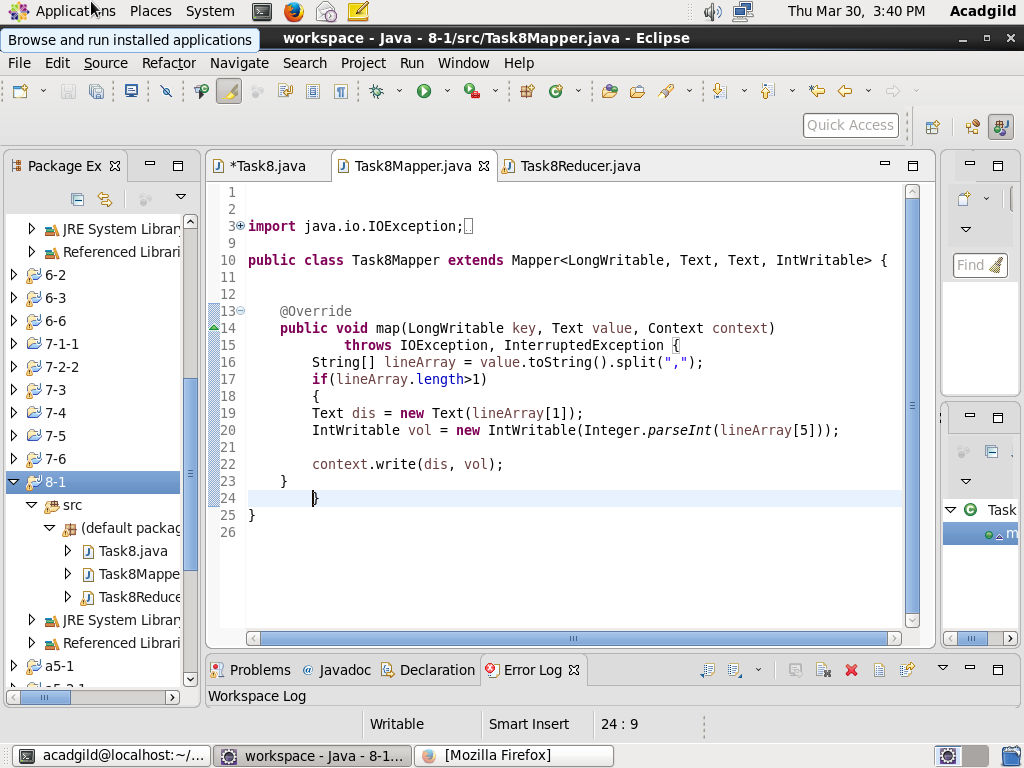
**Q1-**

**PROGRAM:**

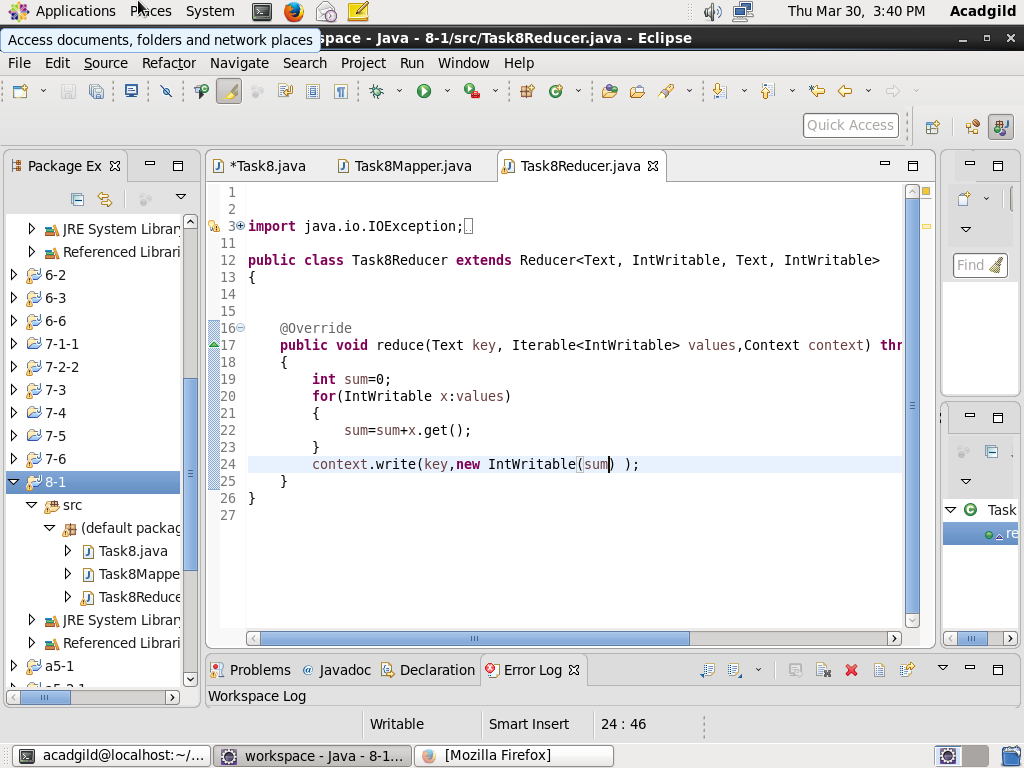
**DRIVER PROGRAM:**

****

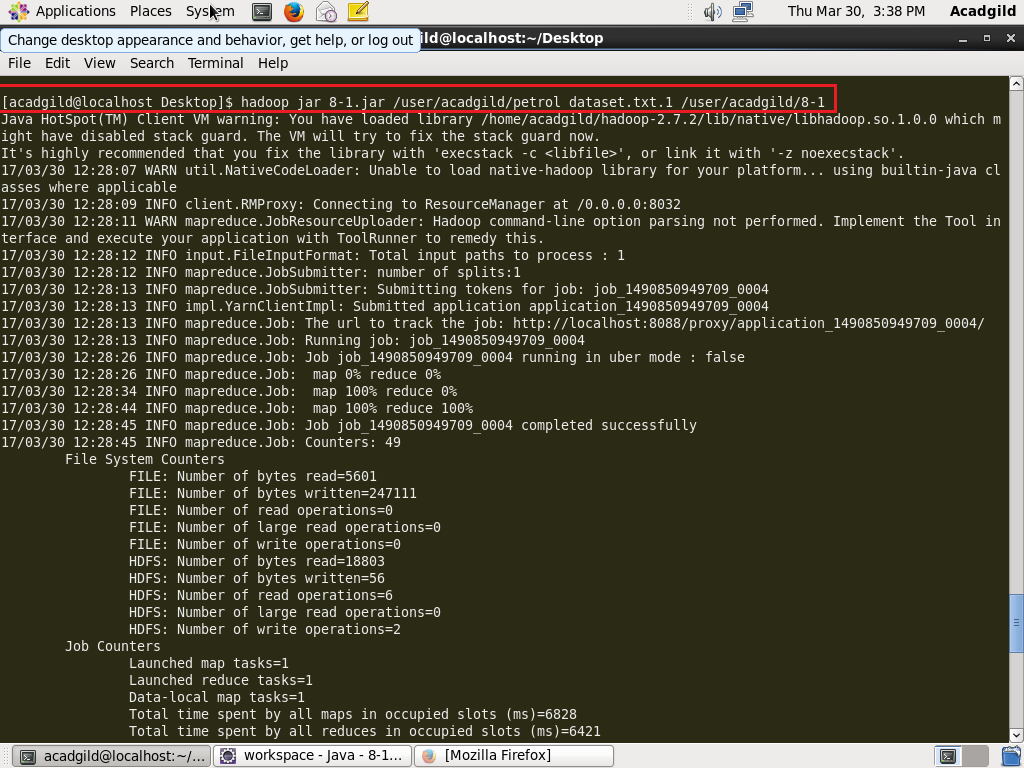
**MAPPER CLASS**

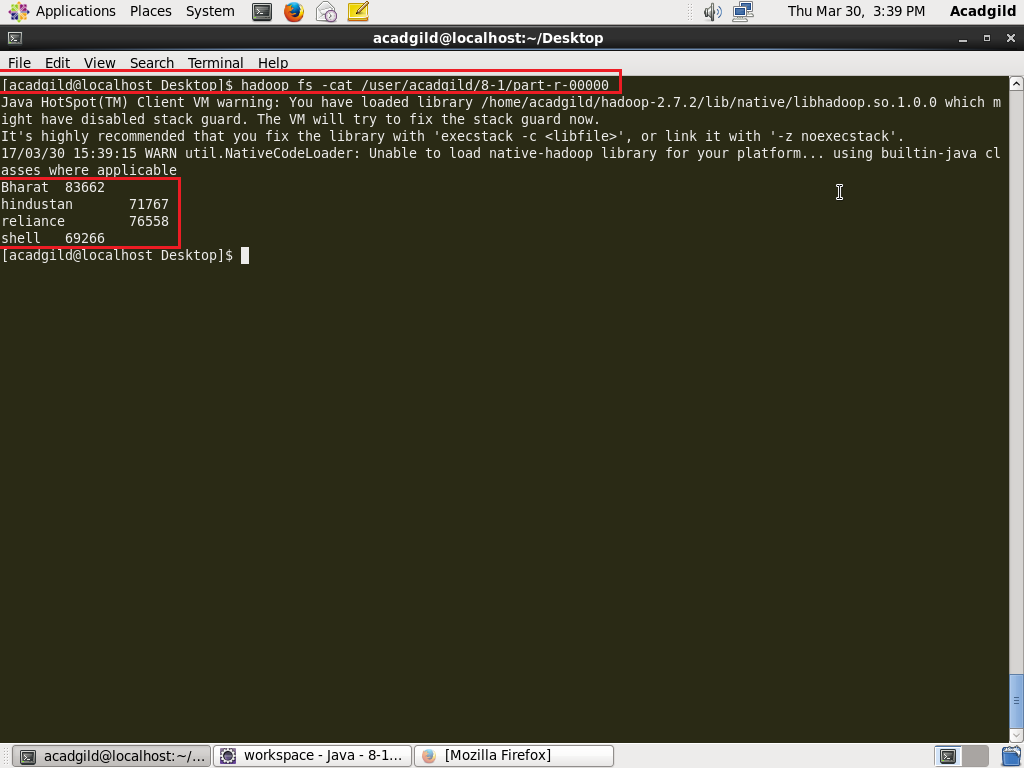
****

**REDUCER CLASS**

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**OUTPUT:**

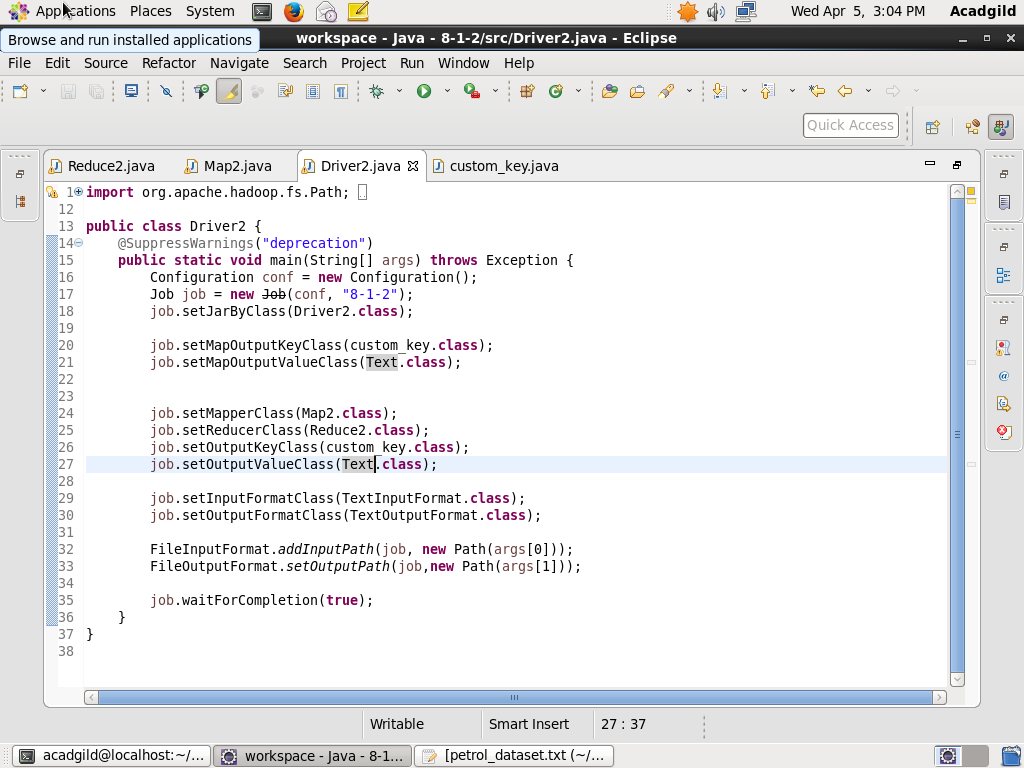
****

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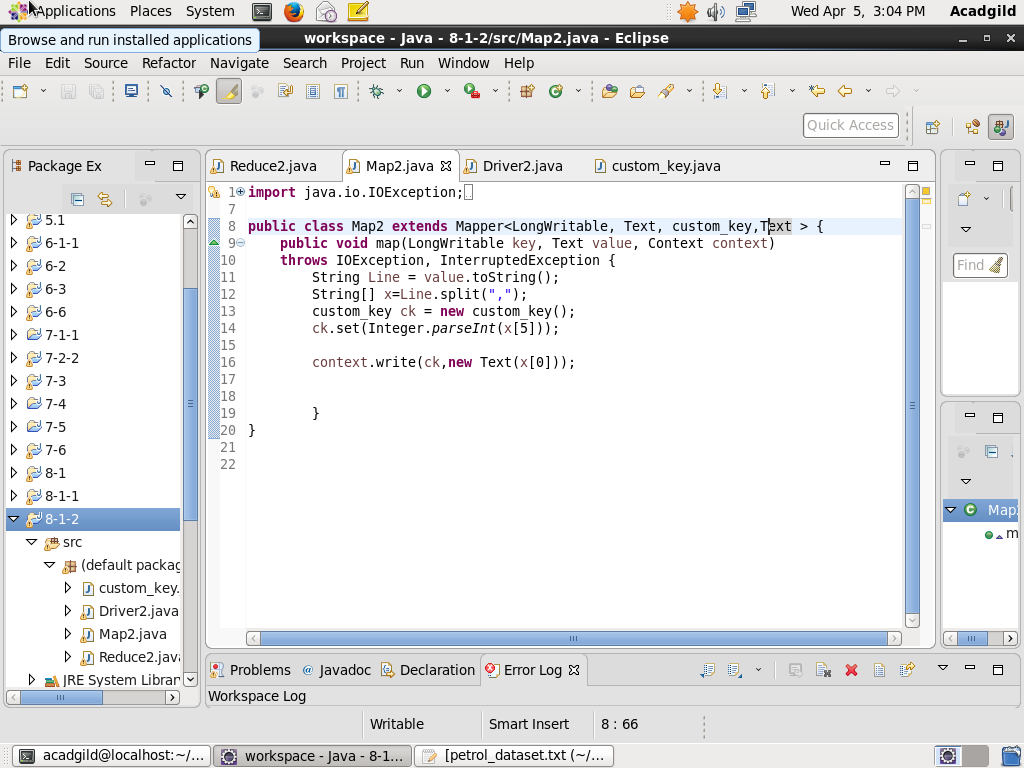
**Q2-**

**PROGRAM:**

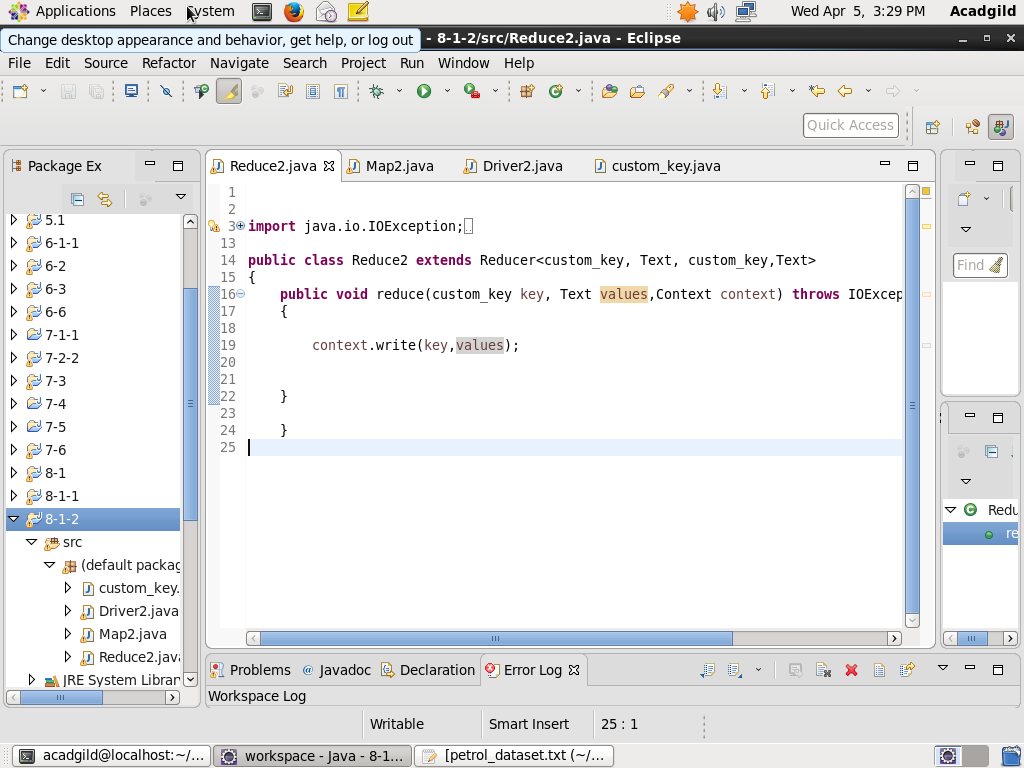
**DRIVER CLASS**

****

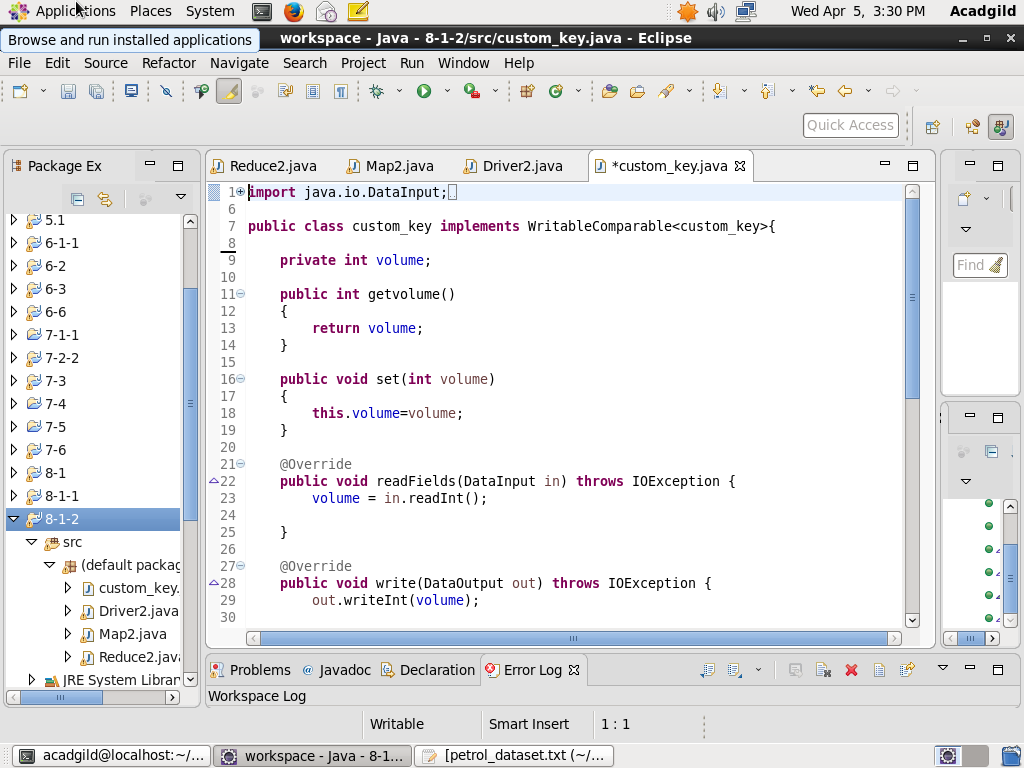
**MAPPER CLASS:**

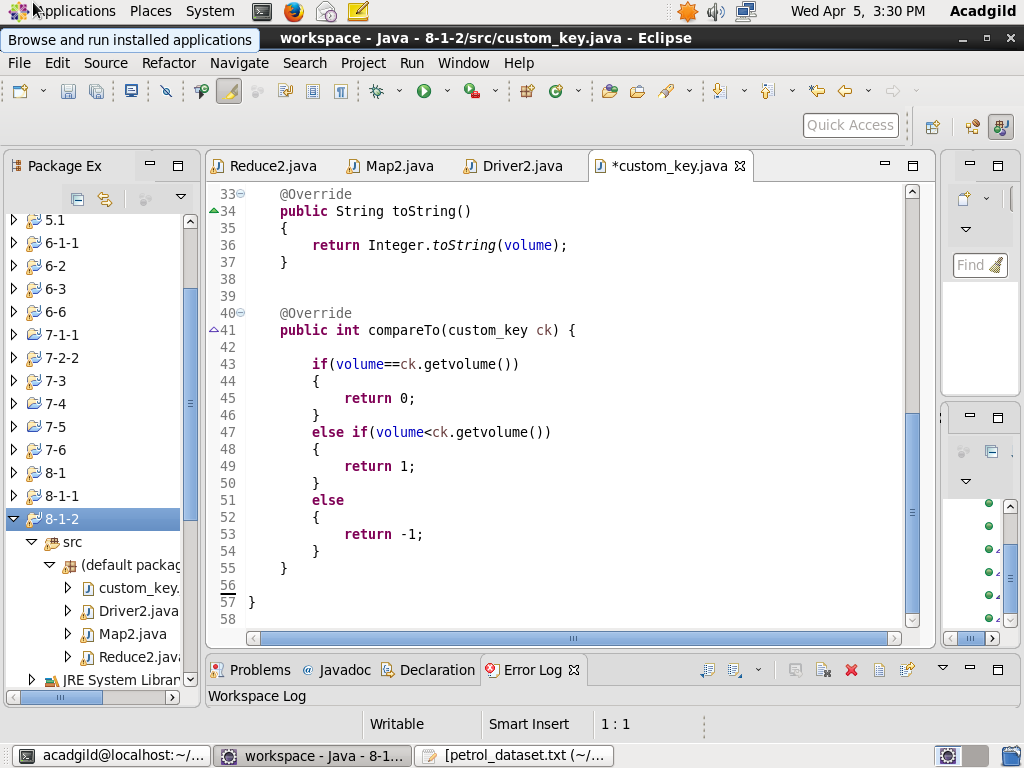
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**REDUCER CLASS:**

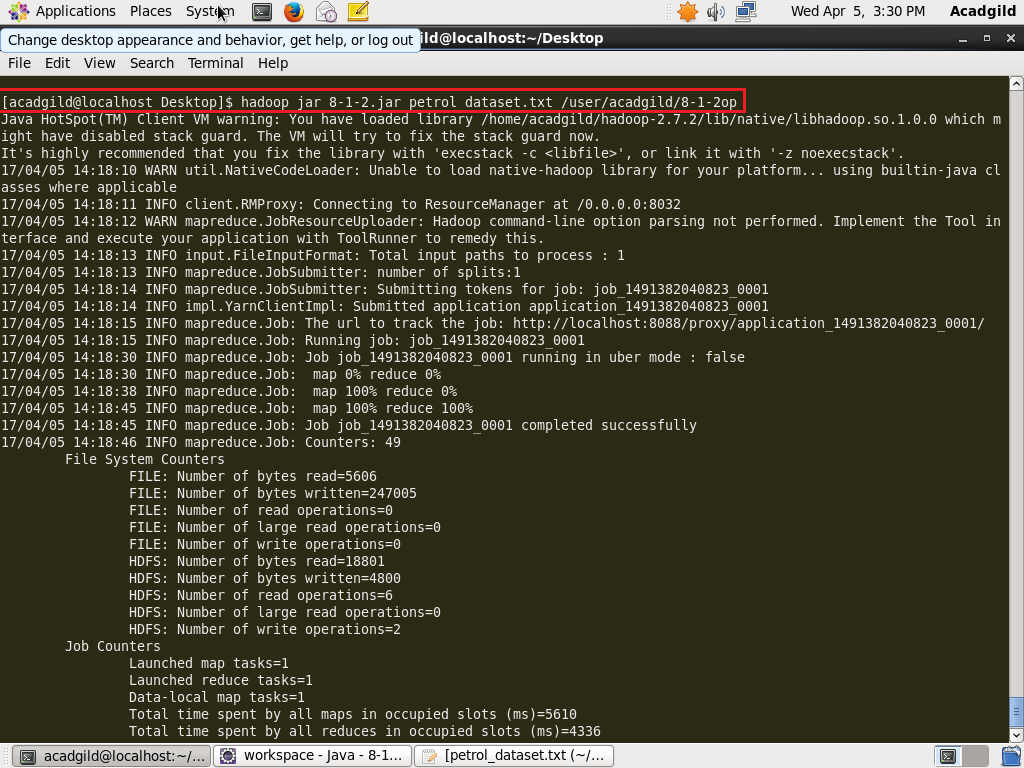
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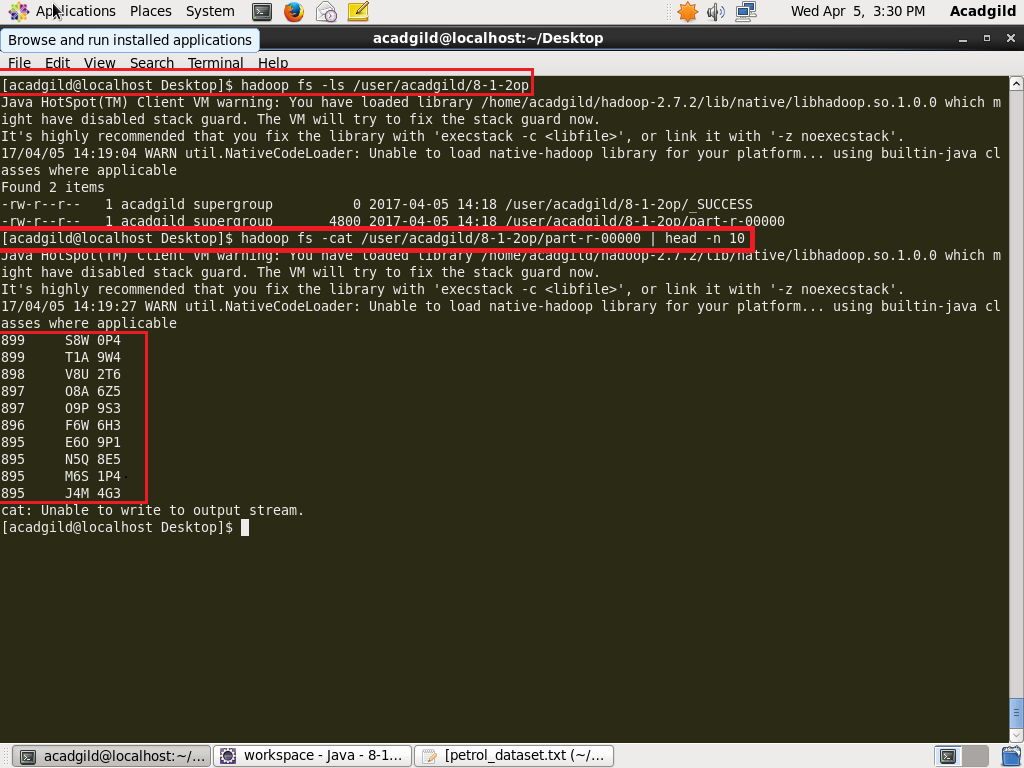
**CUSTOM\_KEY CLASS (IMPLEMTS WRITABLECOMPARABLE INTERFACE)**

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**OUTPUT:**

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