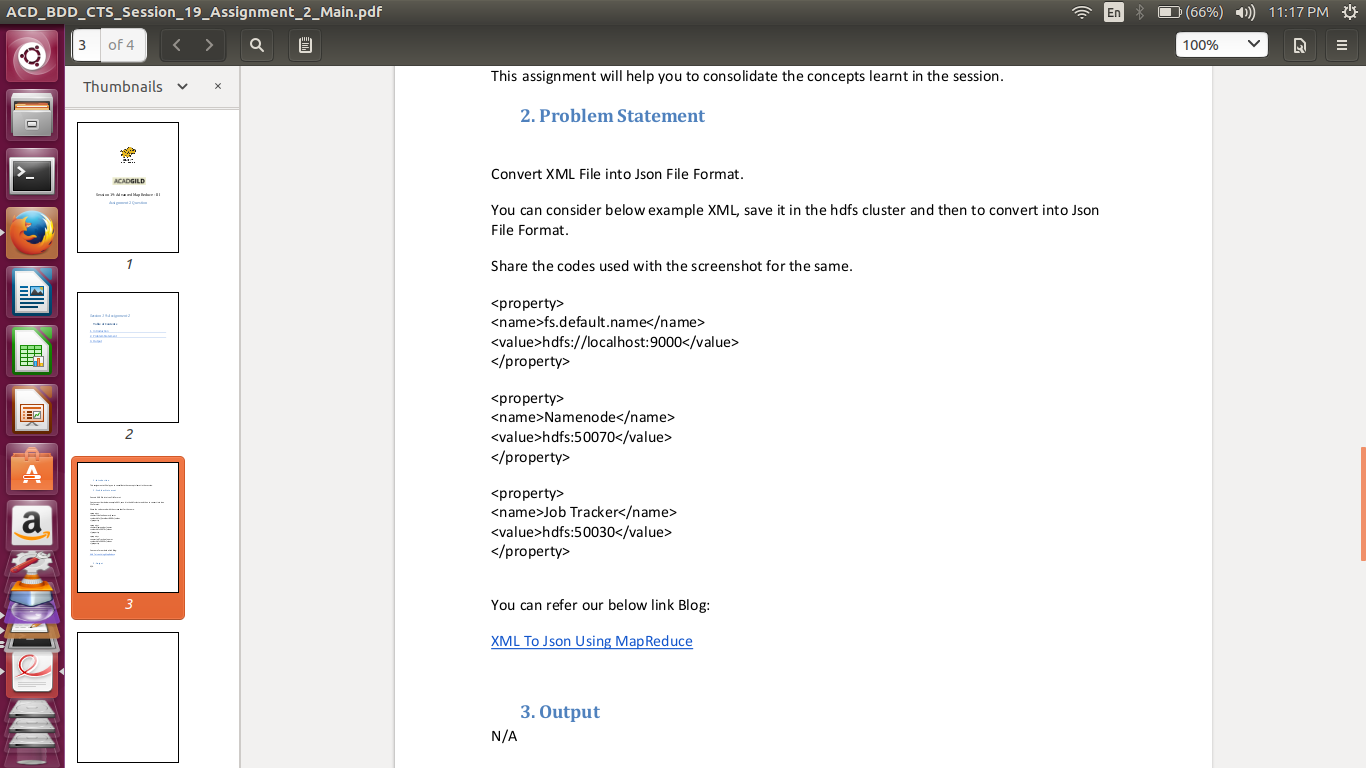
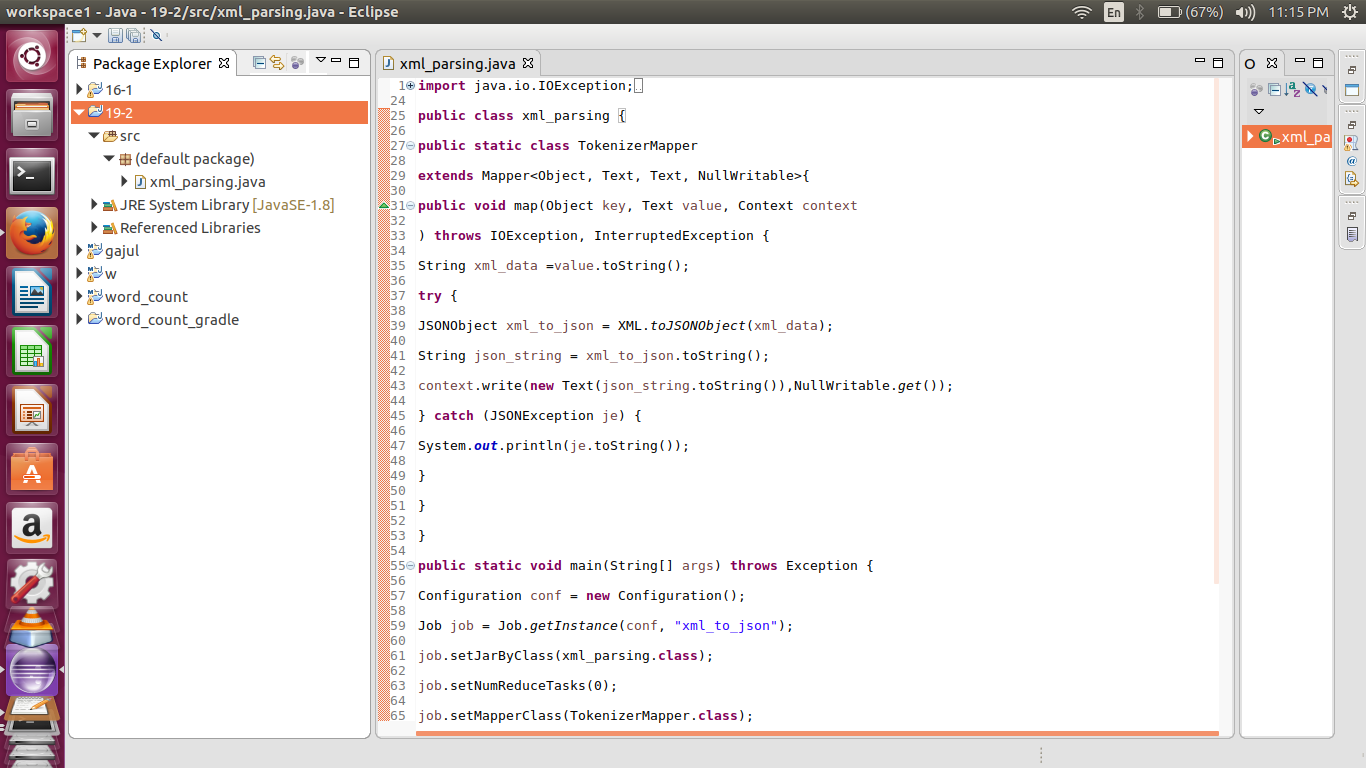
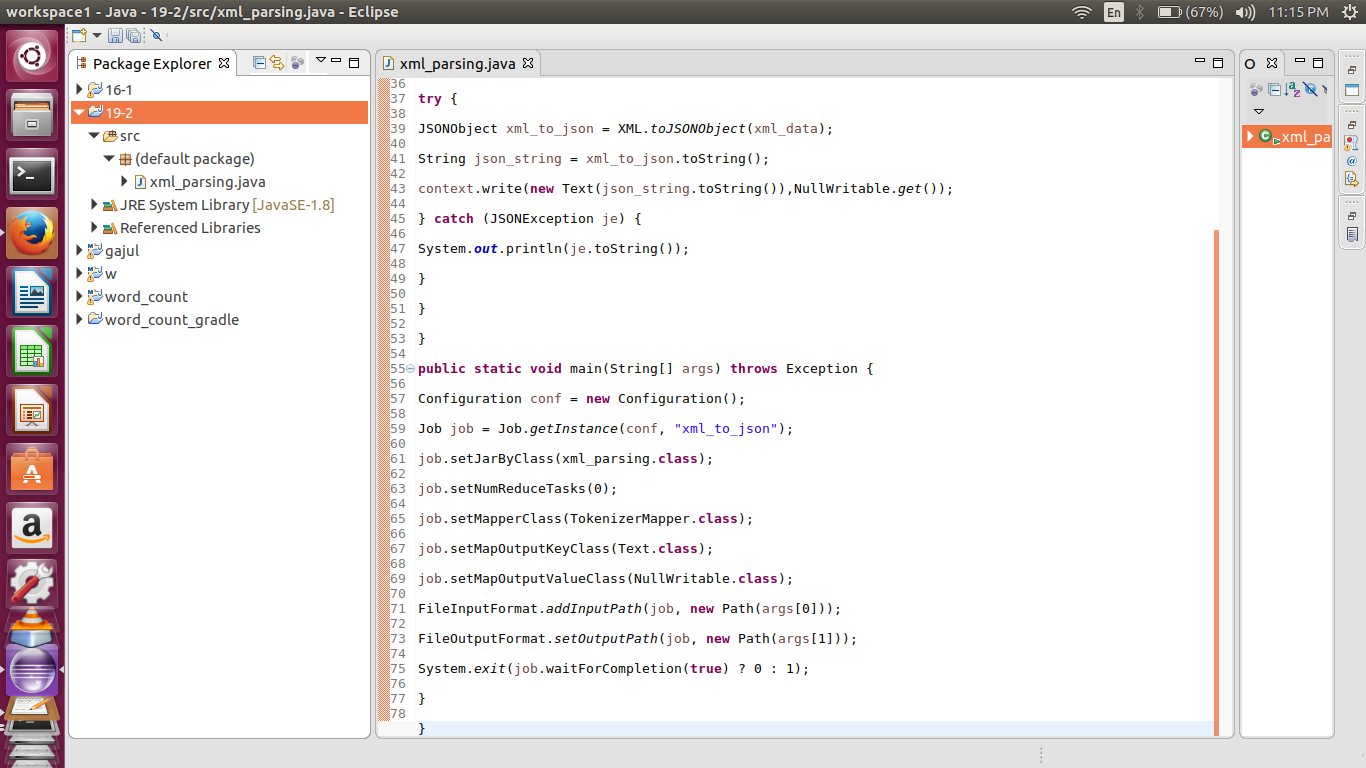
**PROBLEM STATEMENT:**

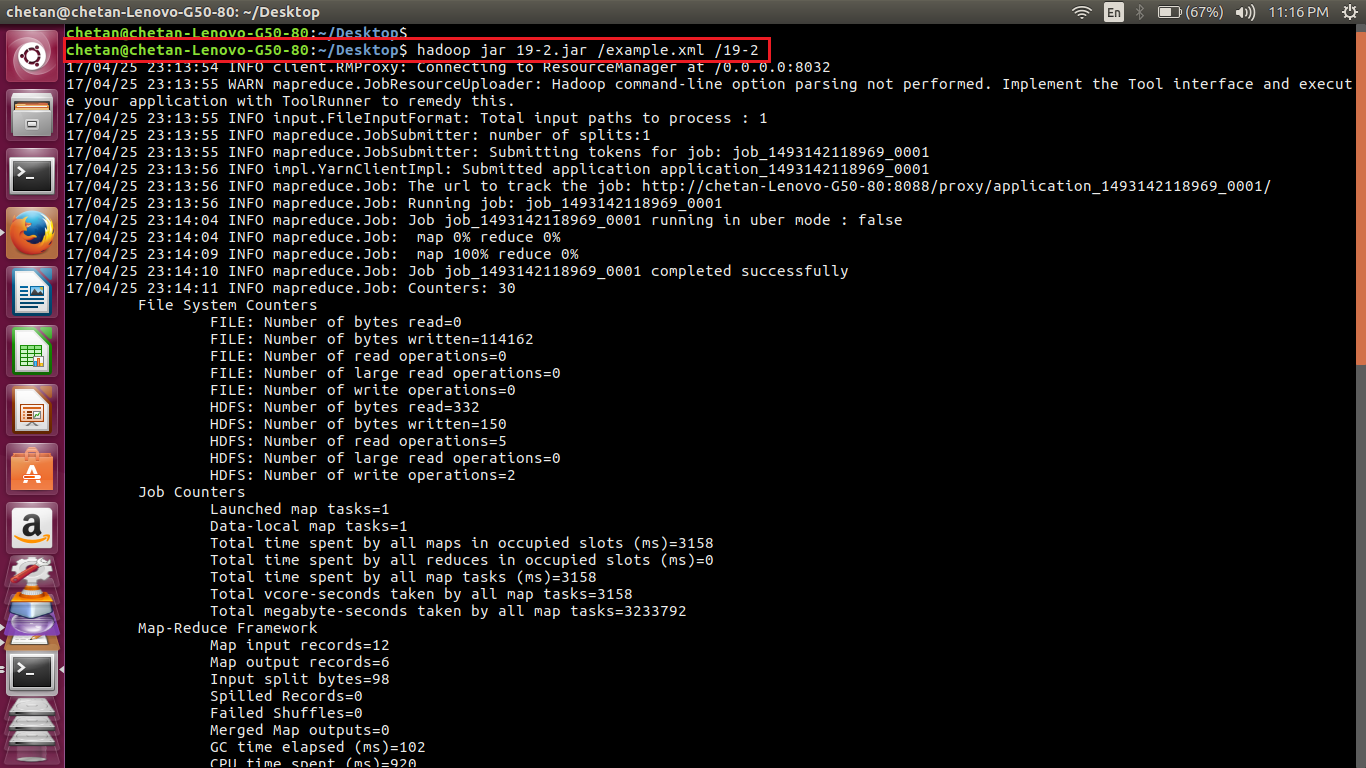
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**PROGRAM:**

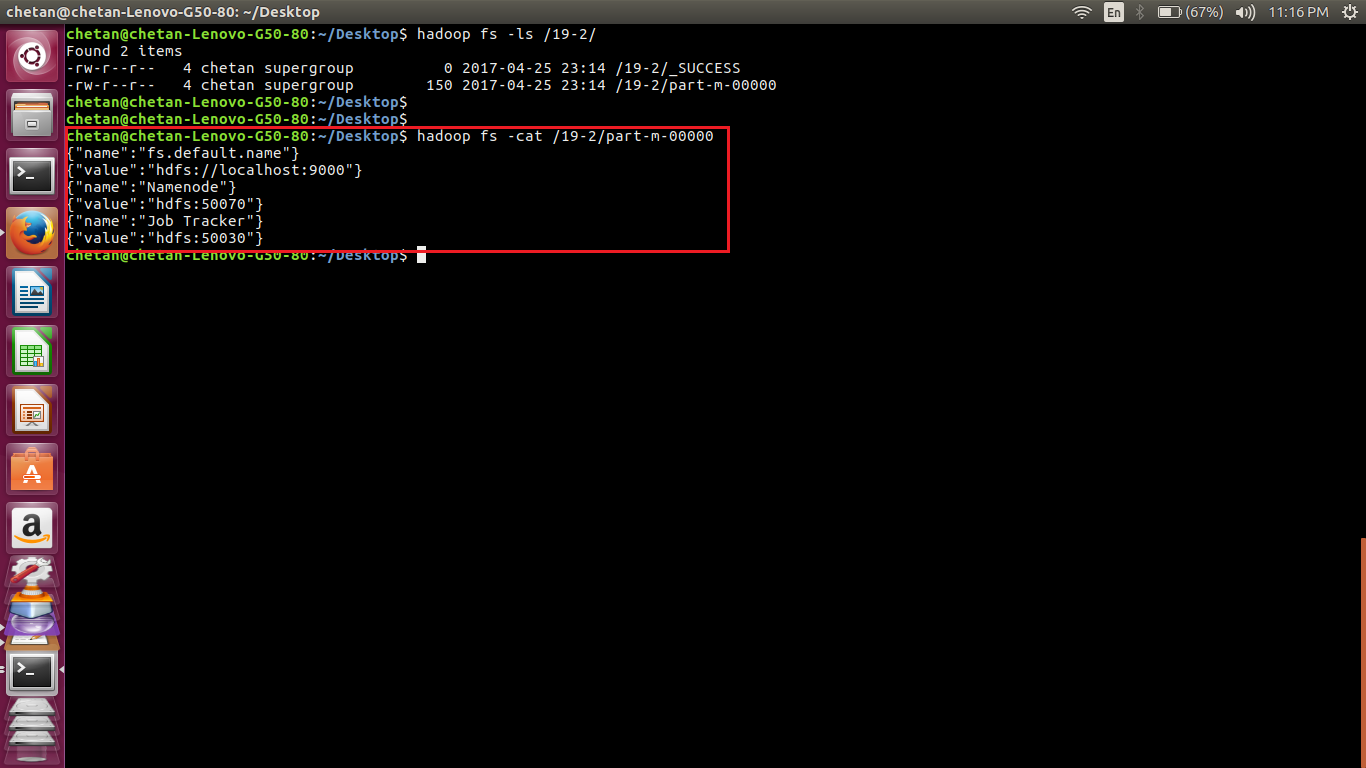
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**EXECUTION COMMAND:**

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**OUTPUT:**

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