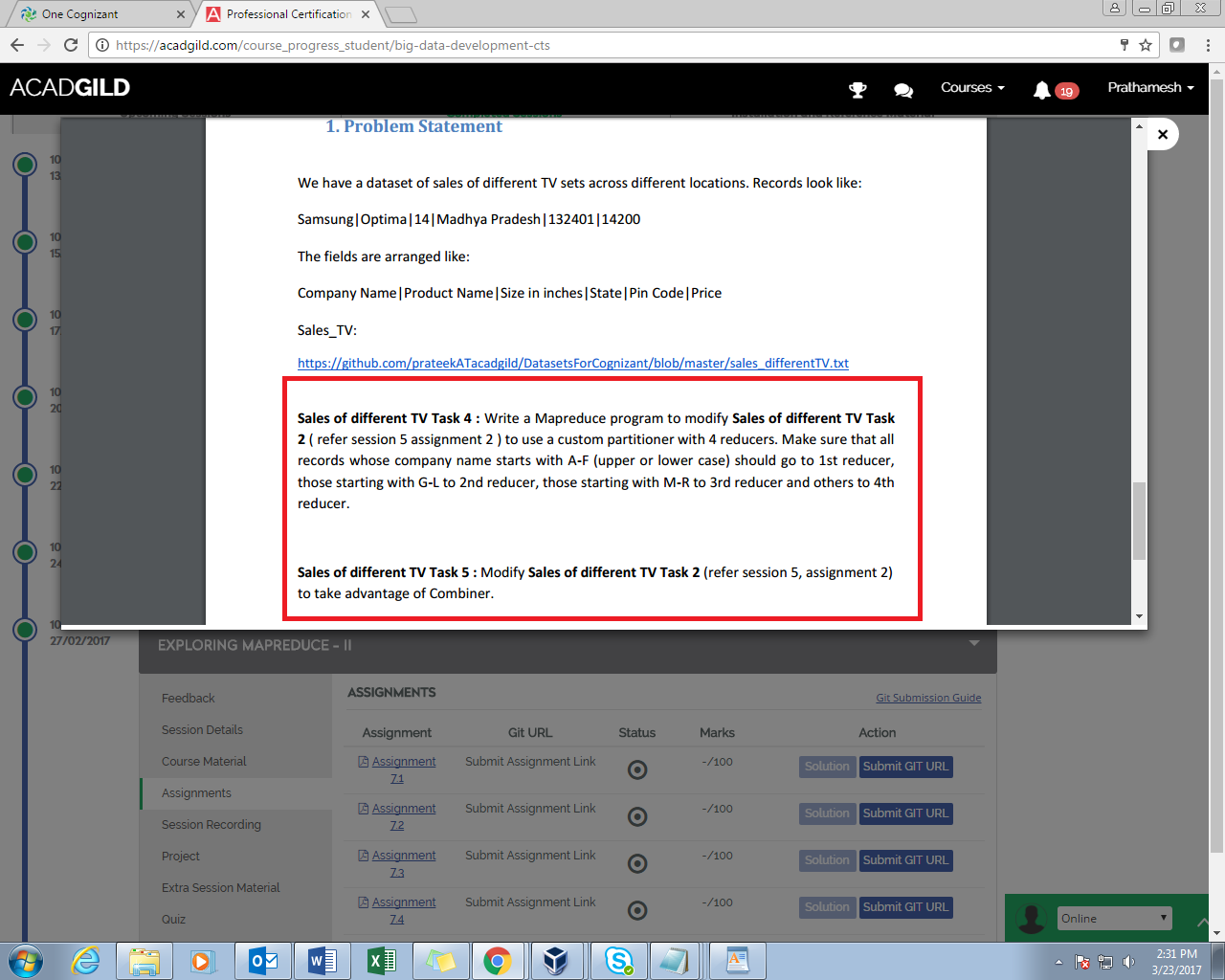
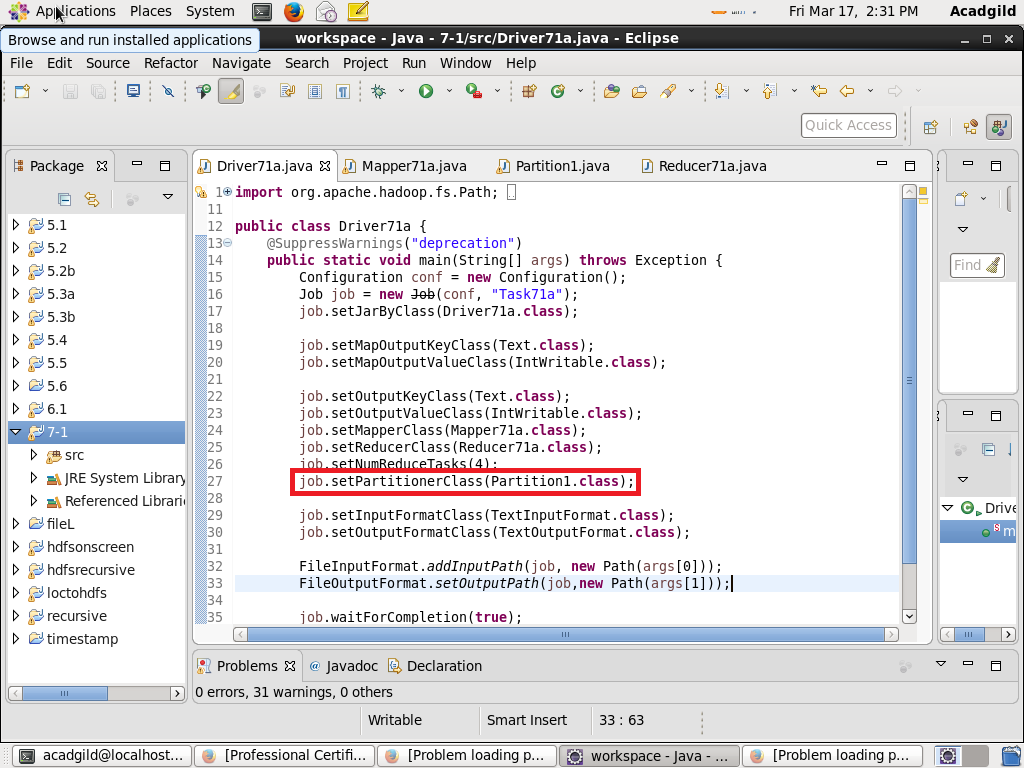
Problem Statement:

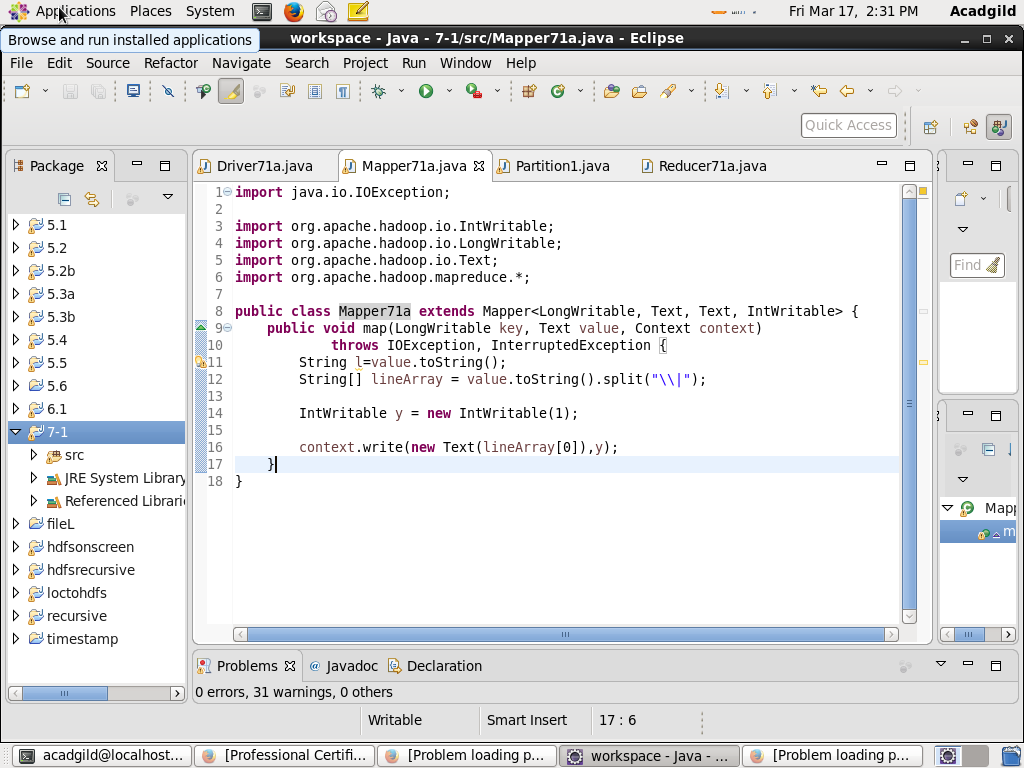


Task 4 Solution:

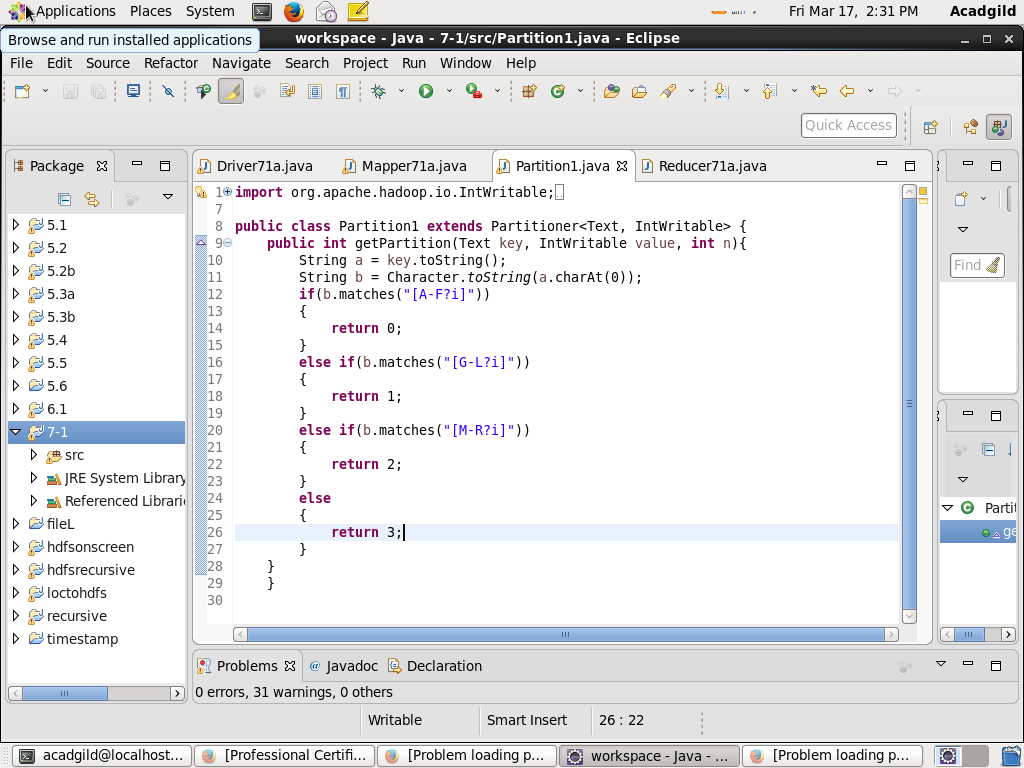
Driver Class



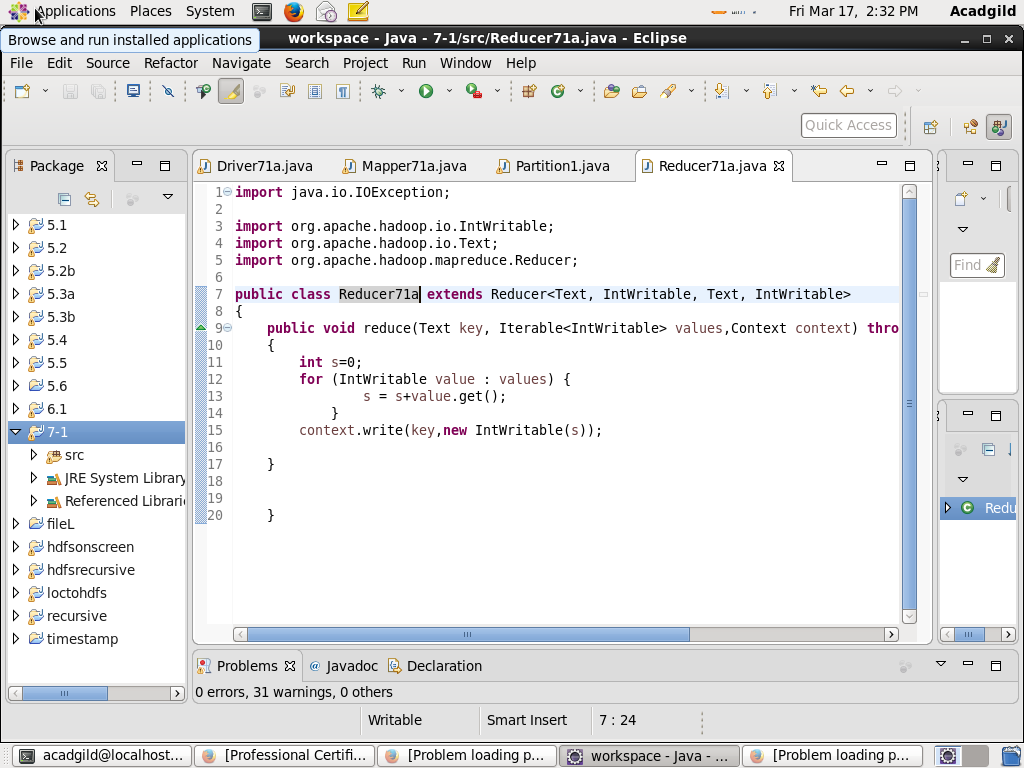
Mapper Class:



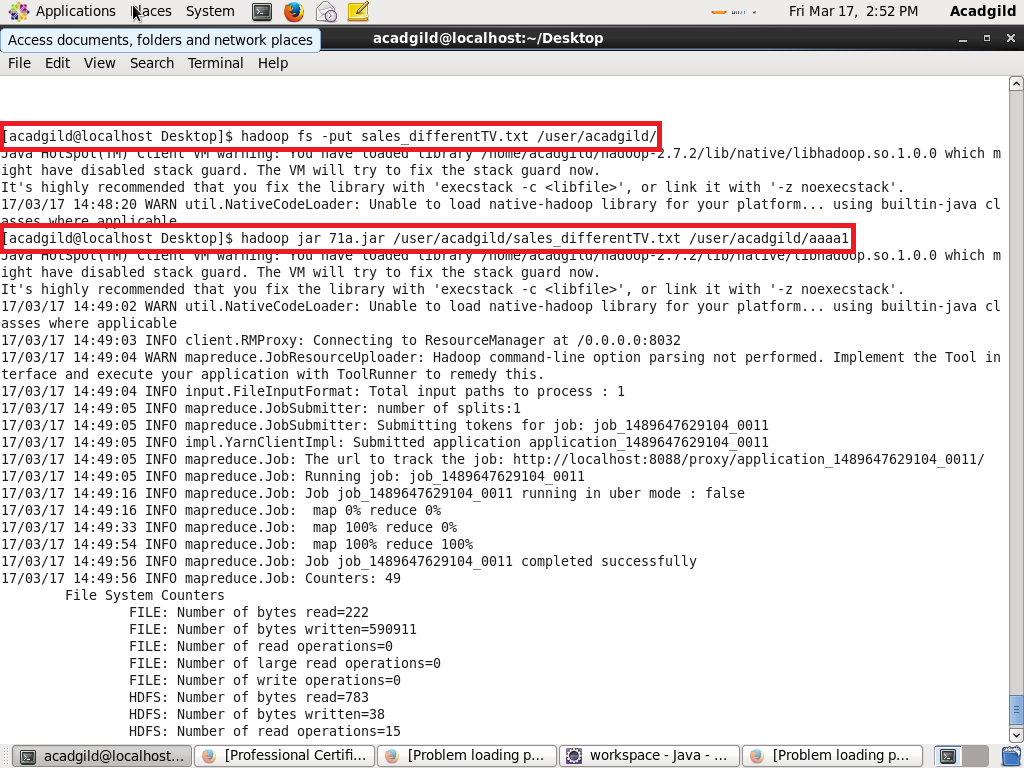
Partitioner Class:

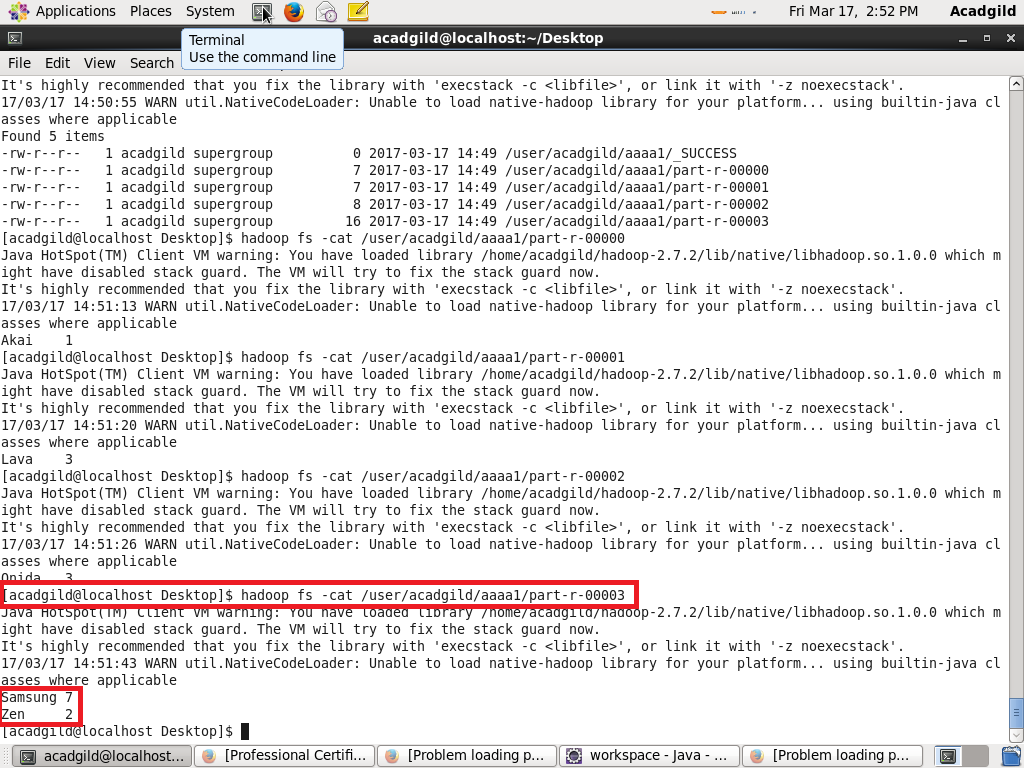
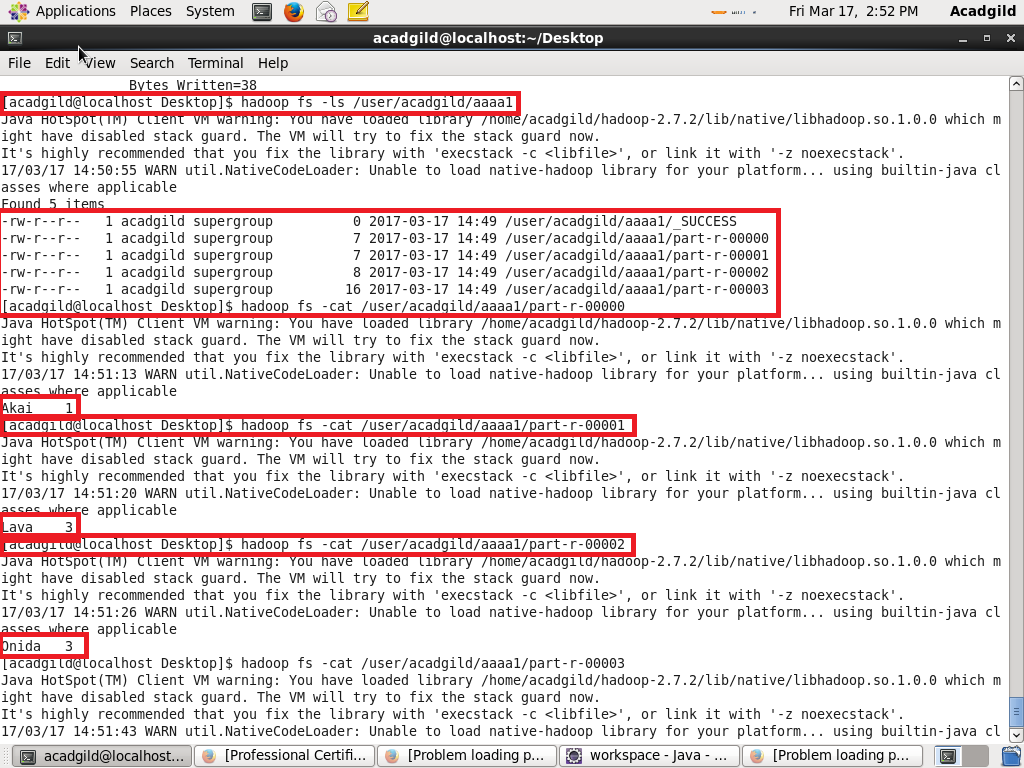


Reducer class:



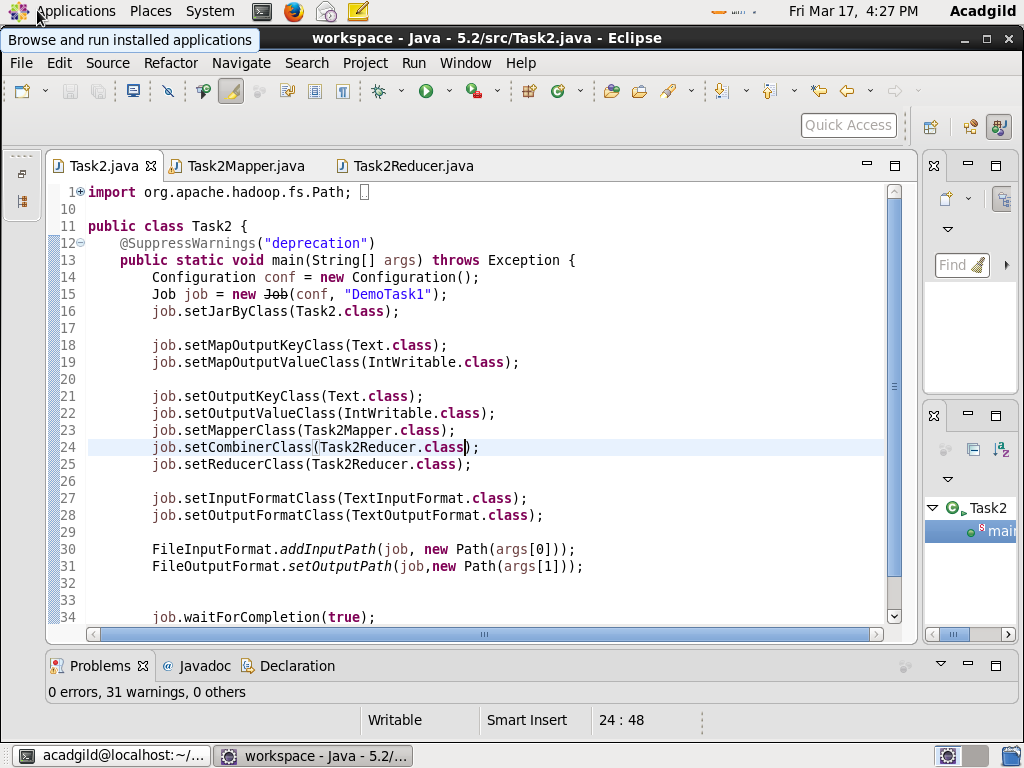
Output:



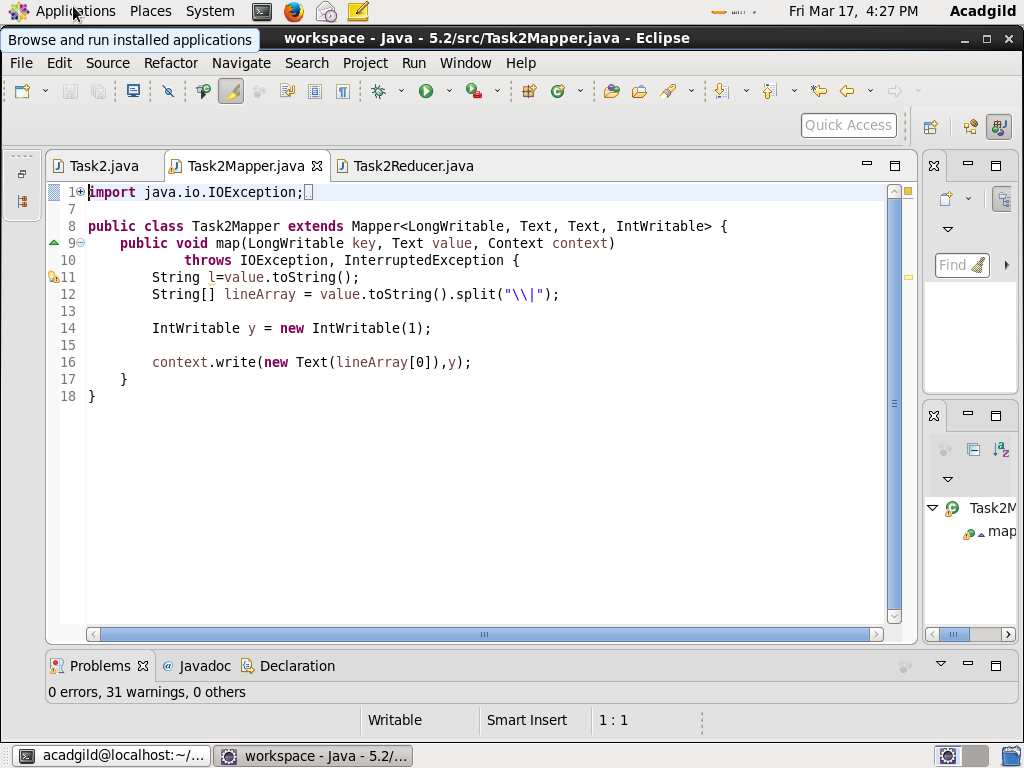


Task 5 Solution:

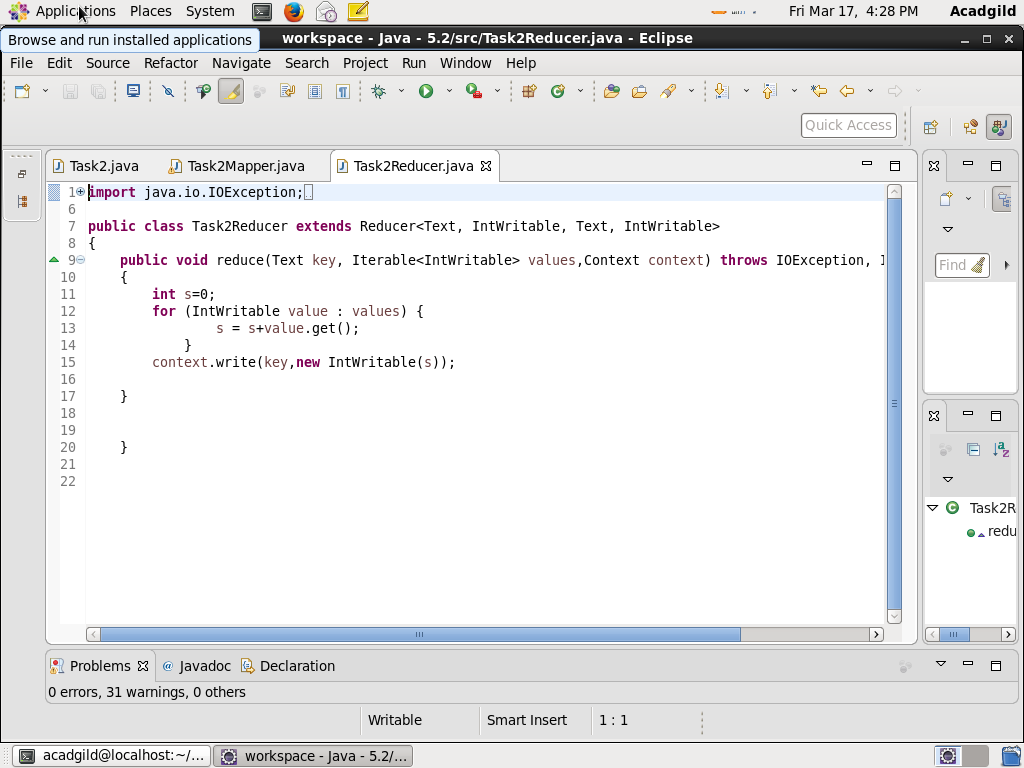
Driver Class:



Mapper Class:



Reducer Class:



Output:

