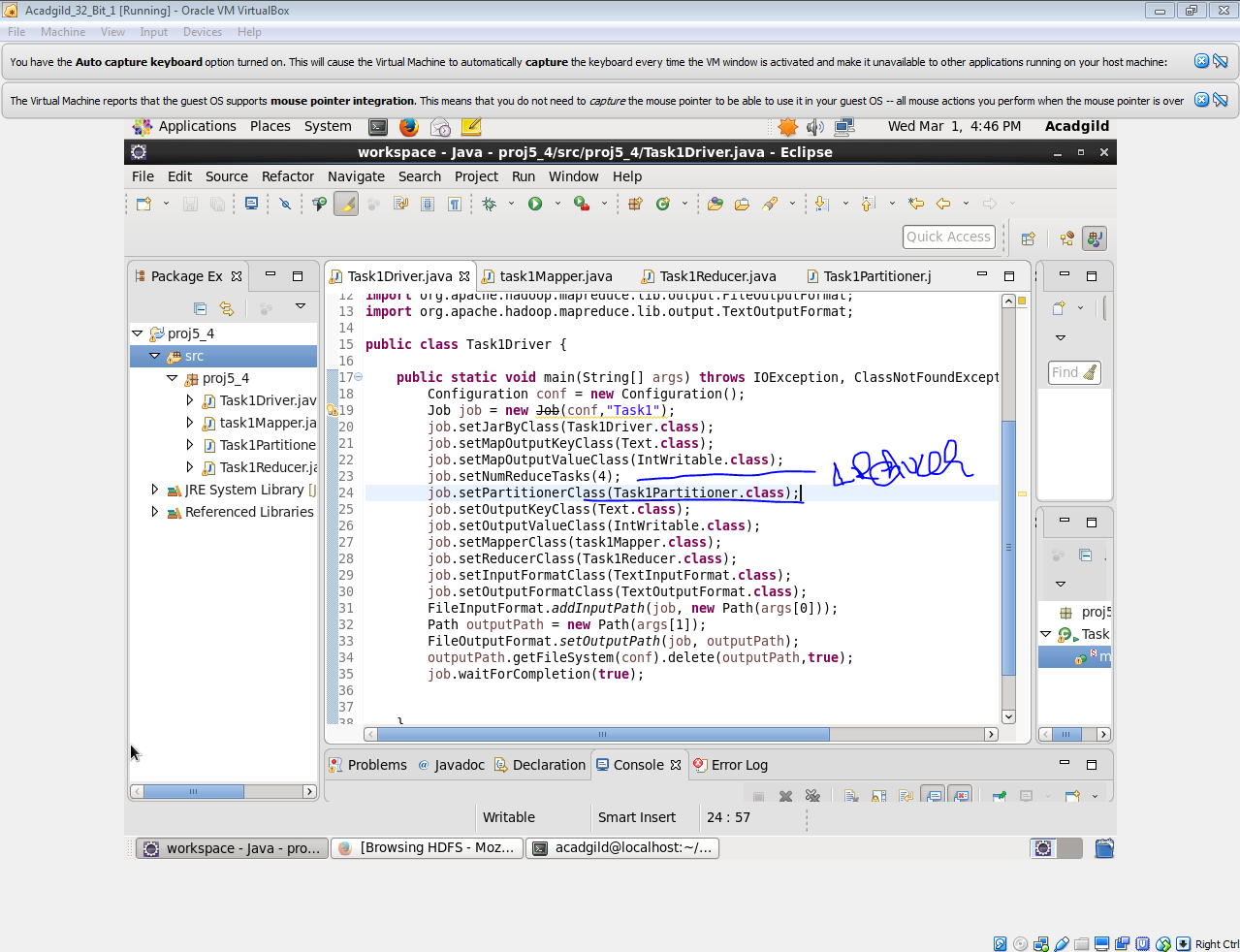
**Assignment 7.1:**

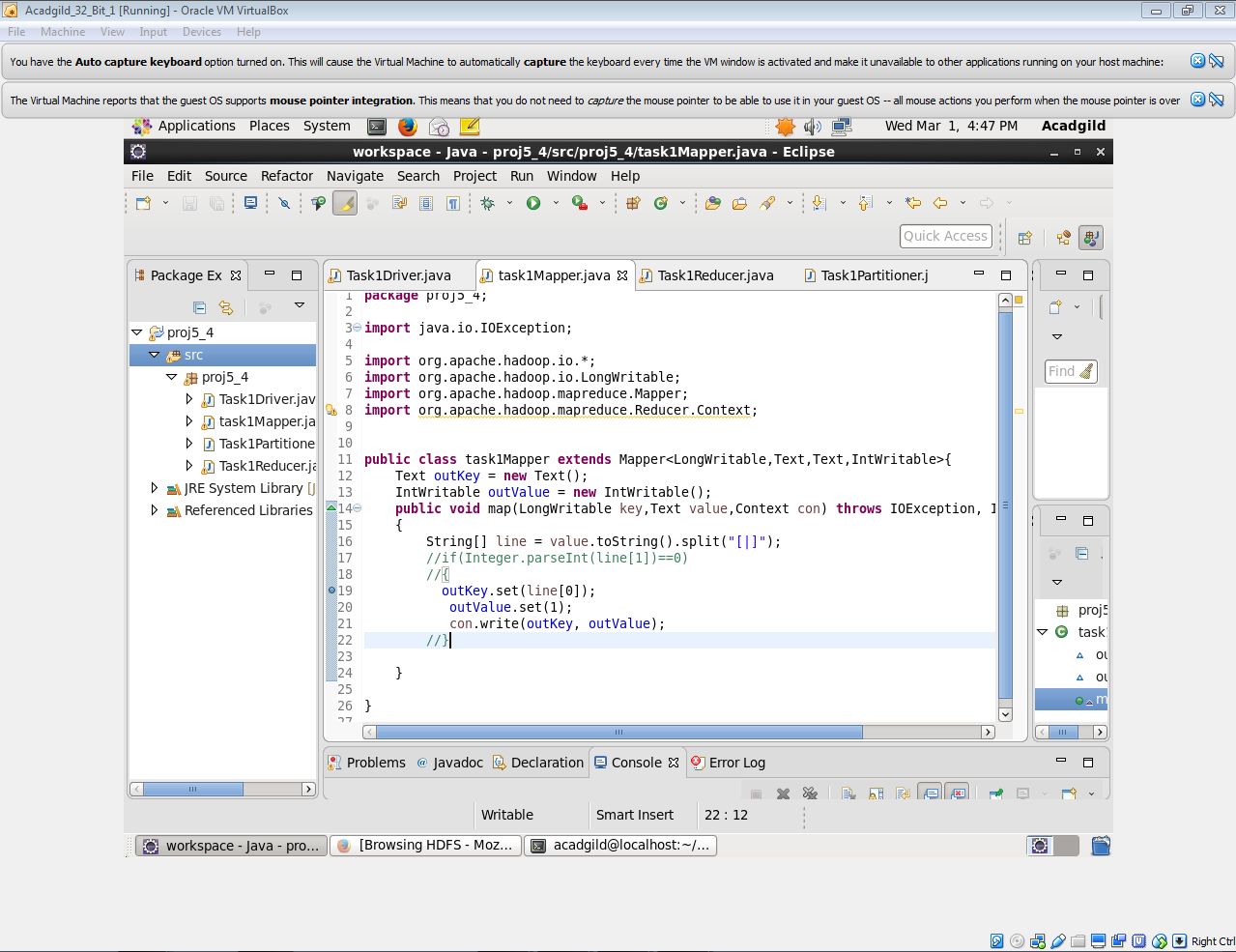
**Task 4:**

**a)Code**

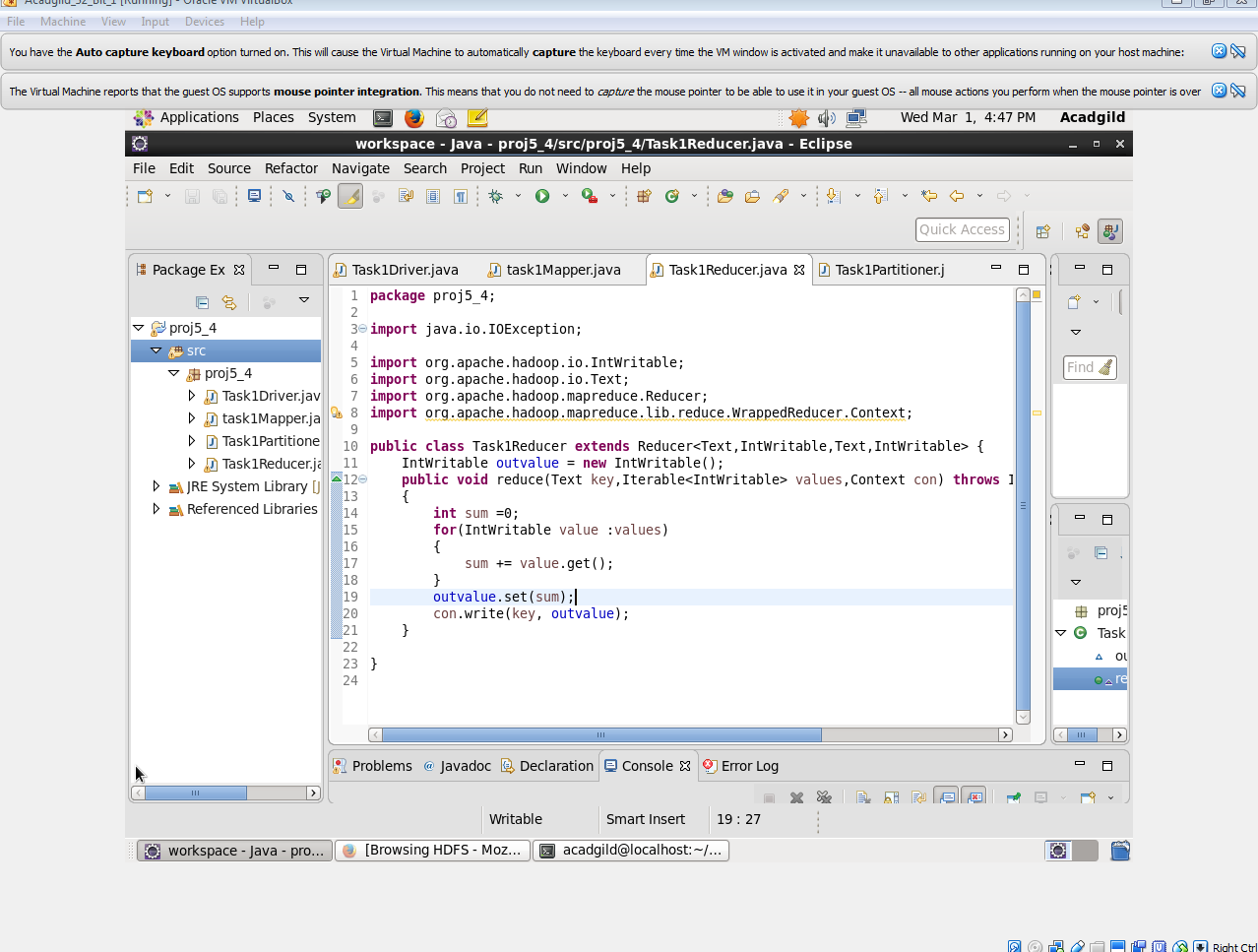
**Driver:**

****

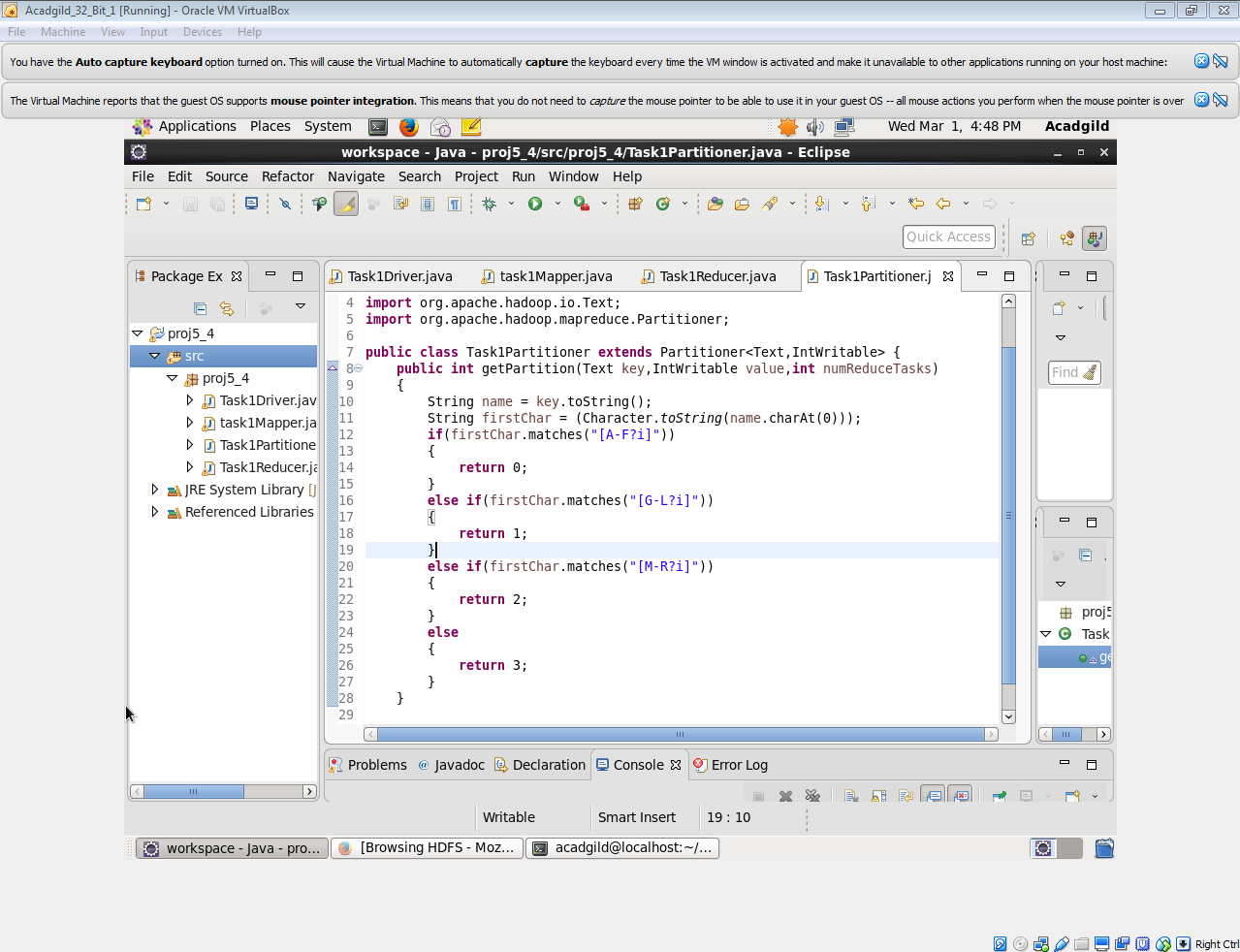
**Mapper:**

****

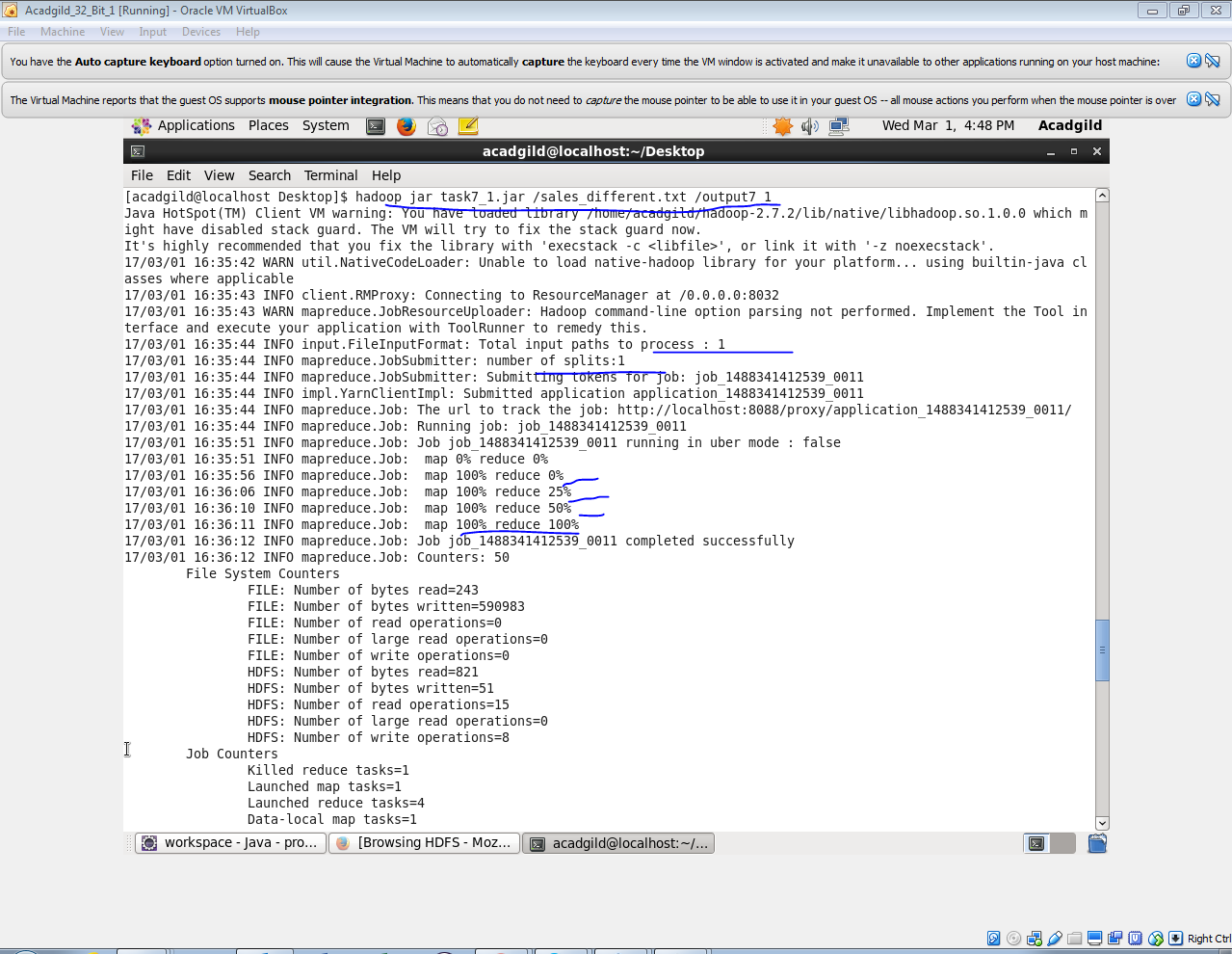
**Reducer:**

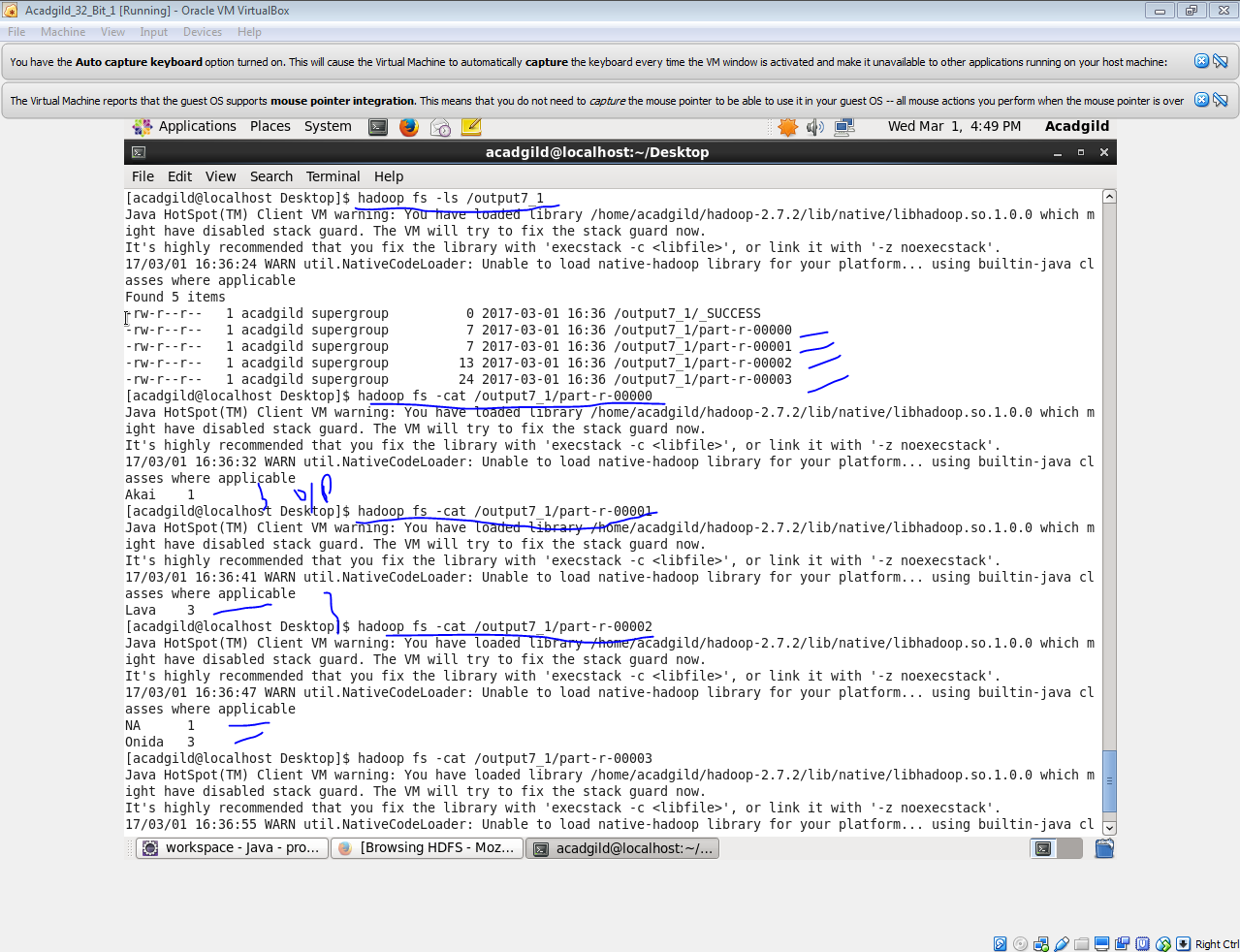
****

**Partitioner:**

****

**Output:**

****

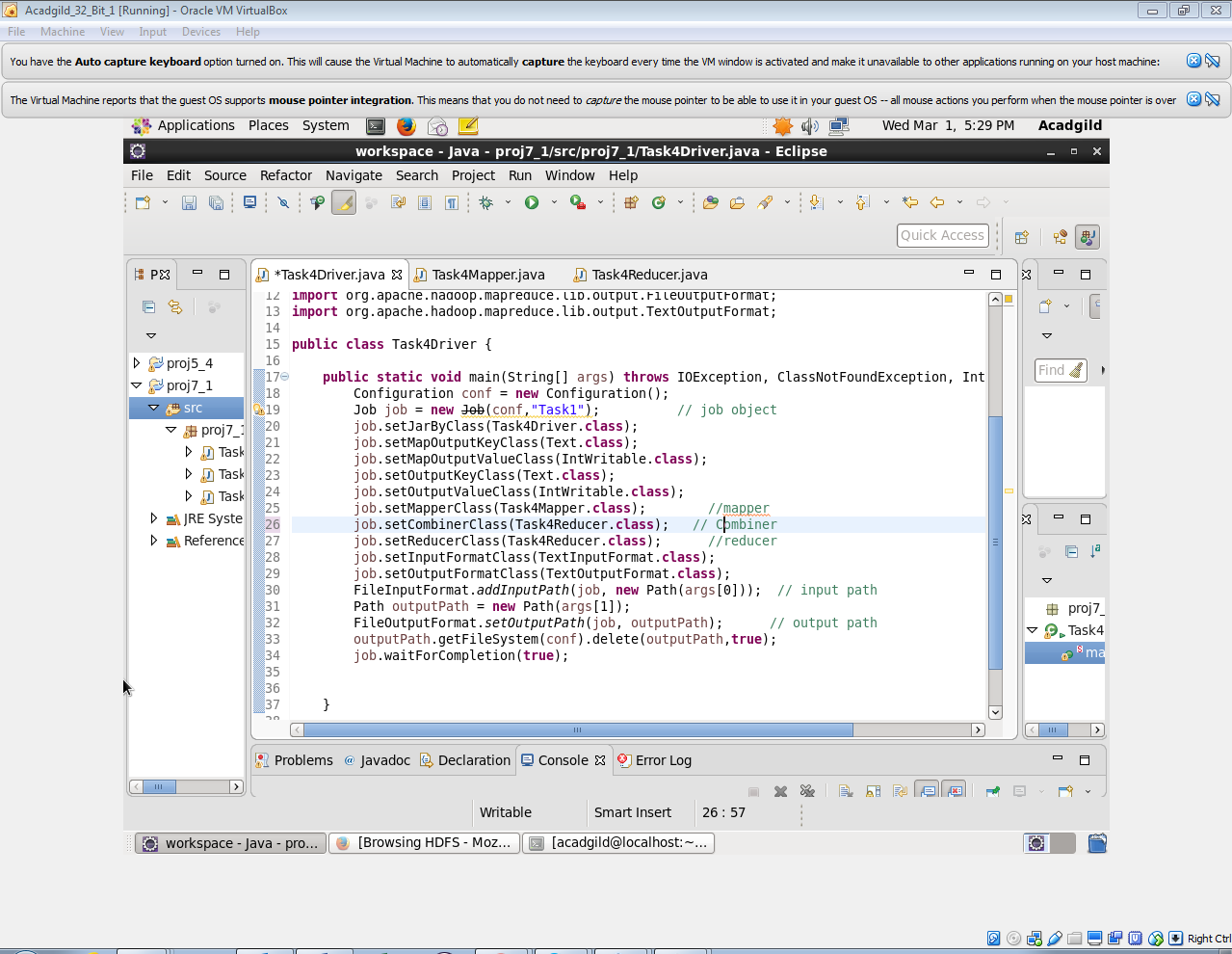
****

****

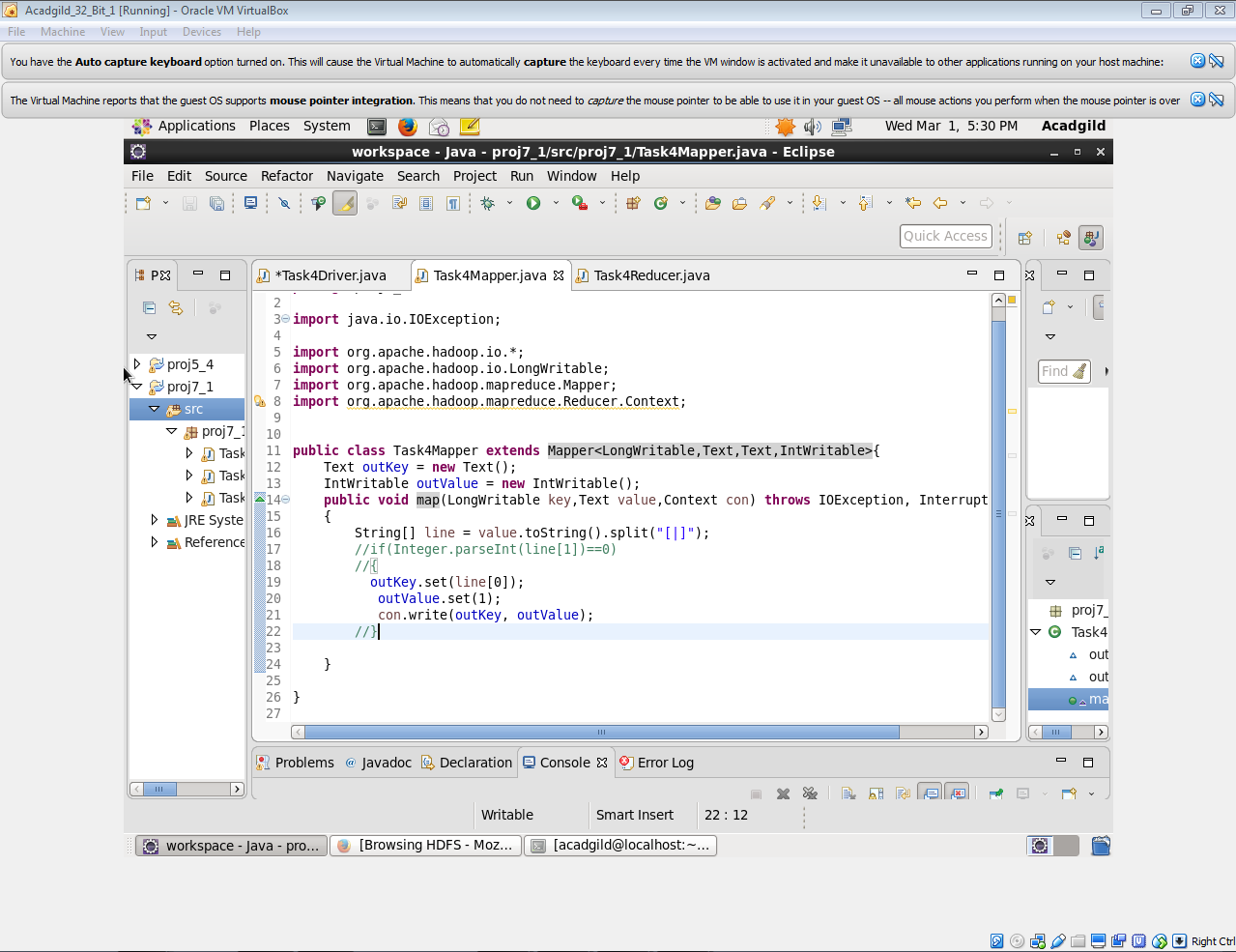
**b)Task 5 :**

**Code**

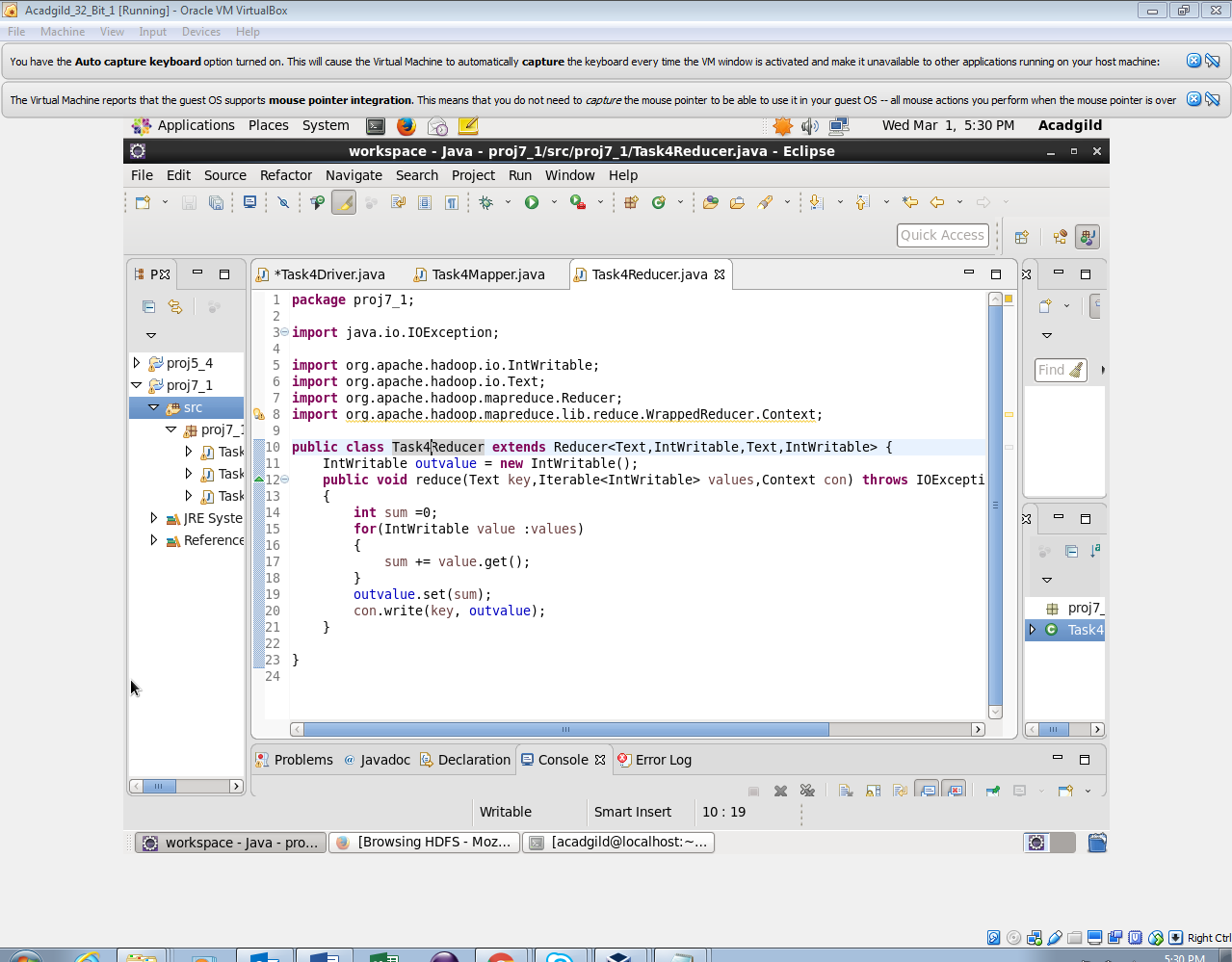
**Driver**

****

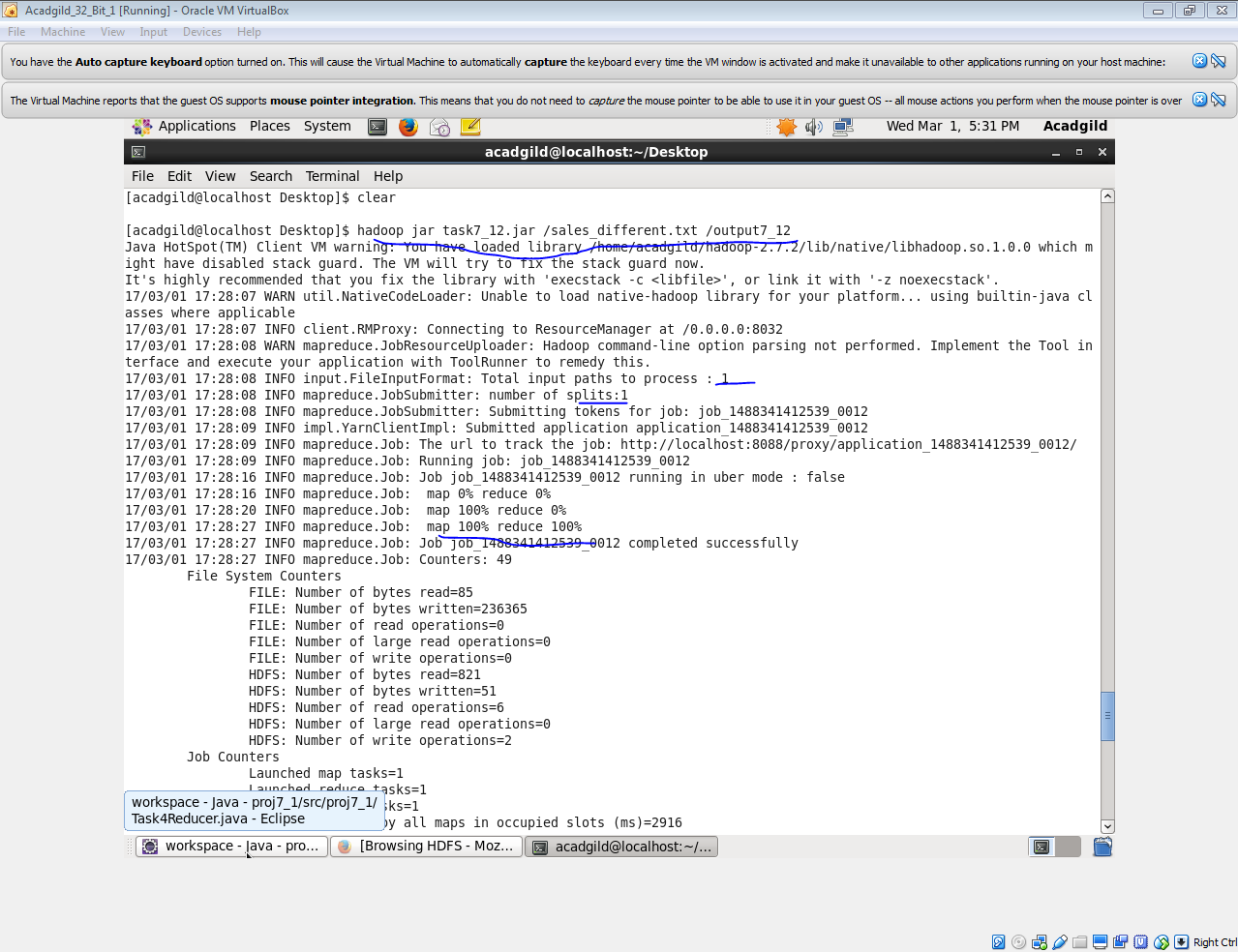
**Mapper**

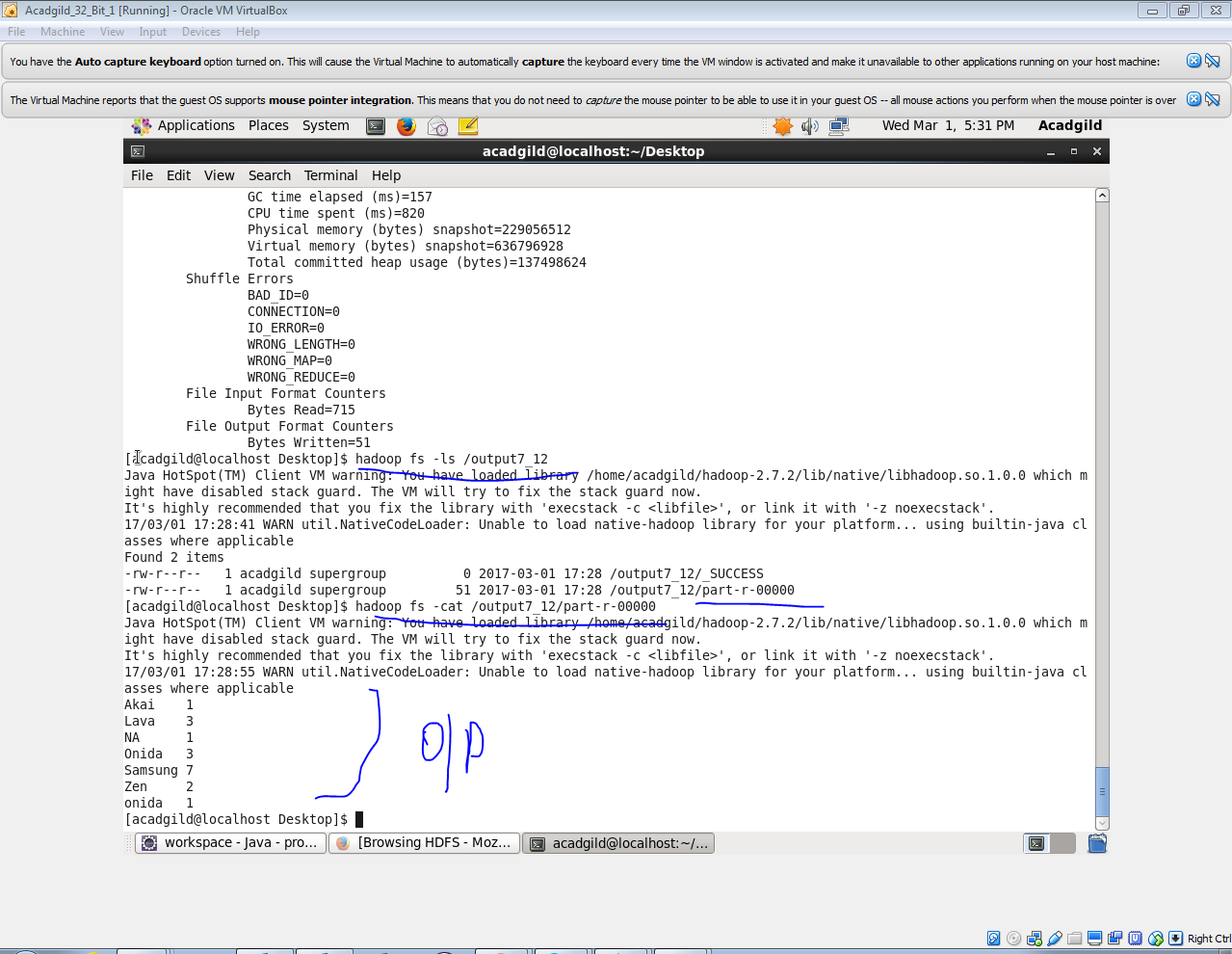
****

**Reducer**

****

**Output**

****

****