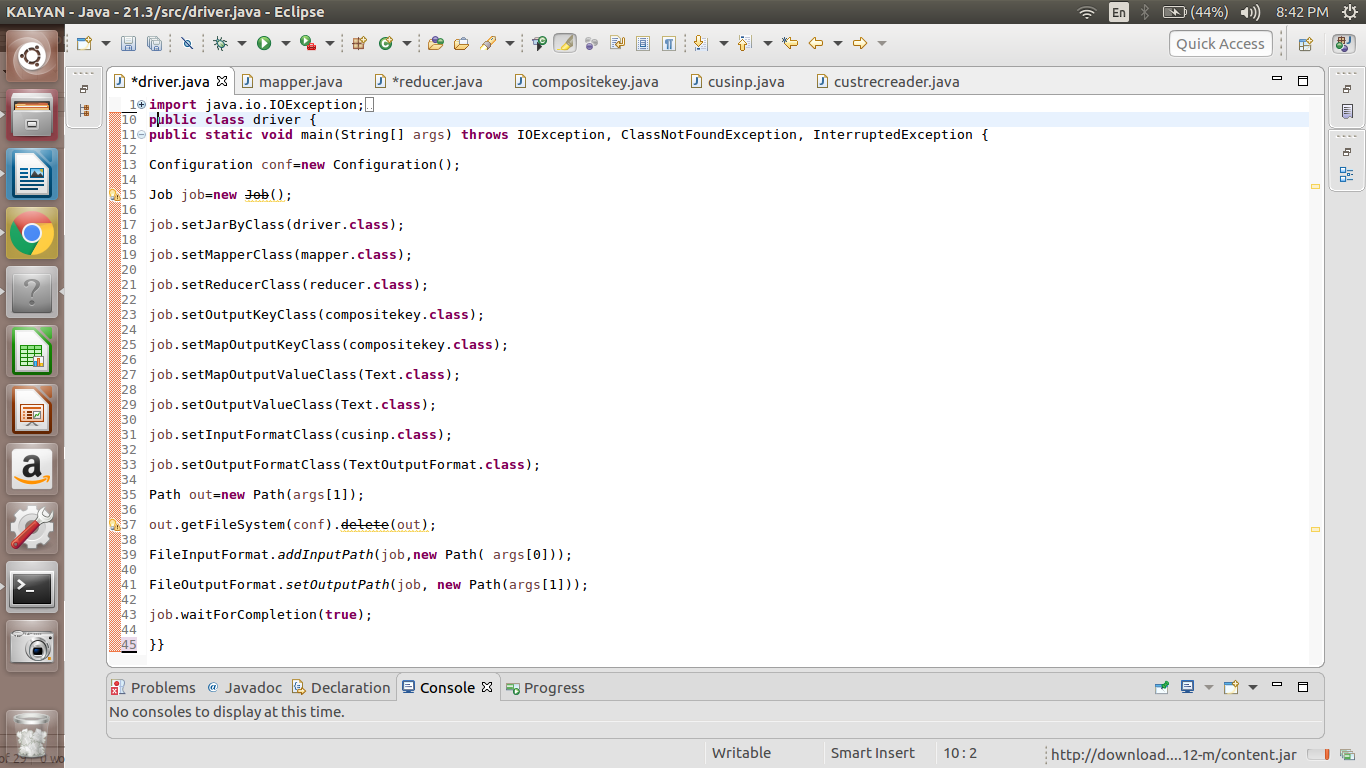
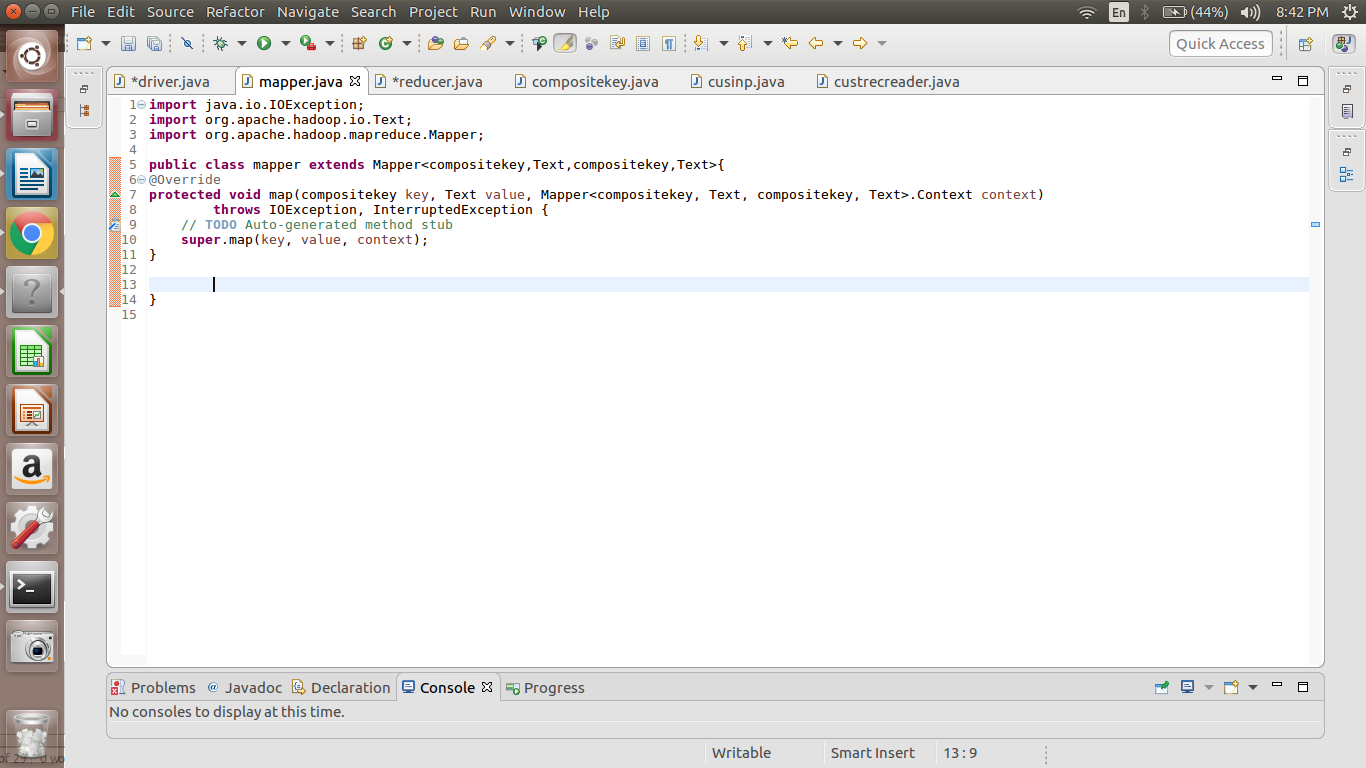
**21.3 This dataset consists of two columns i,e., first\_name & last\_name &city use custom input format to read the key as the combination of first\_name and last\_name and arrange the output of the program should be the key sorted by last\_name.**

* Since we want record reader to read first name and last name as key , define a composite key that contains first name and last name and then order last name by ascending.
* For reading the file by composite key , a custom Input format class is created which accepts the parameters key and value.
* Now, these values are passed to the Record reader, which does the actual formatting of the inputs.

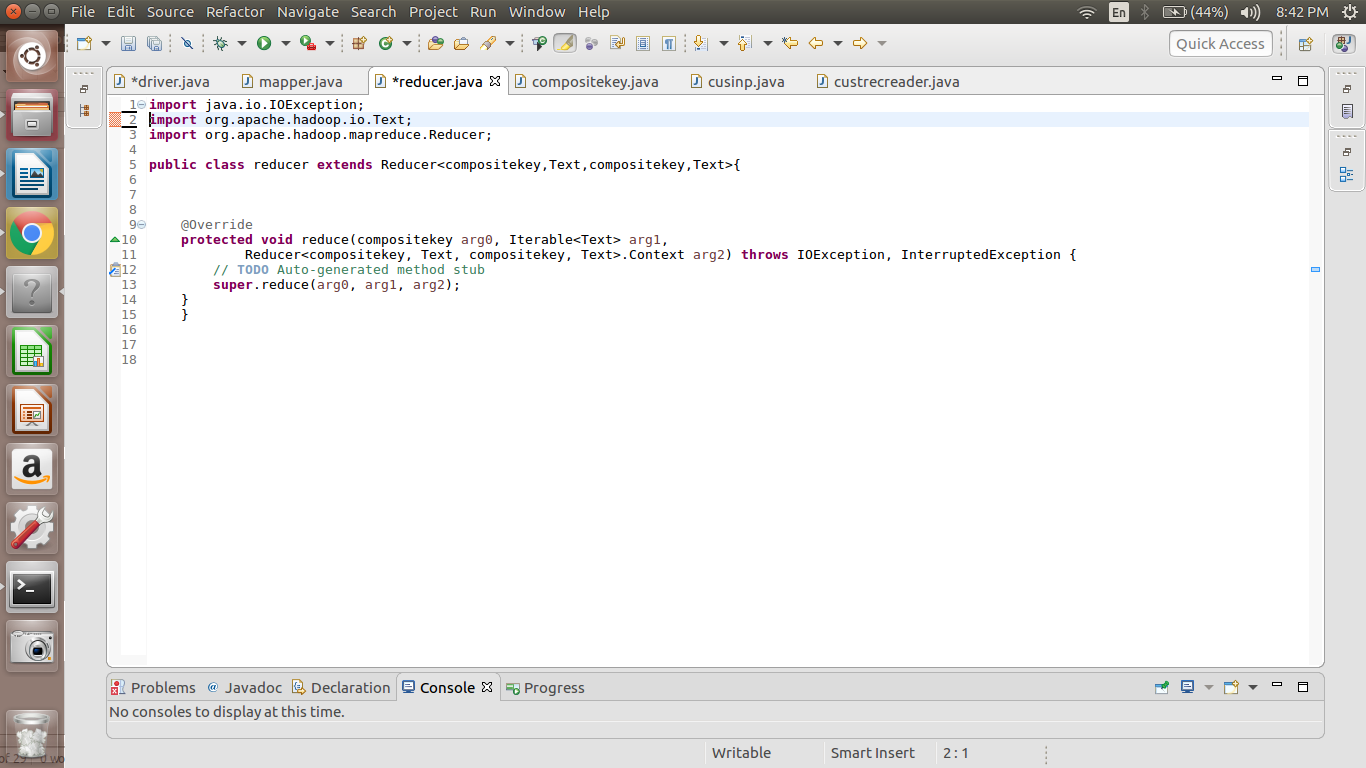
**DRIVER CLASS:**

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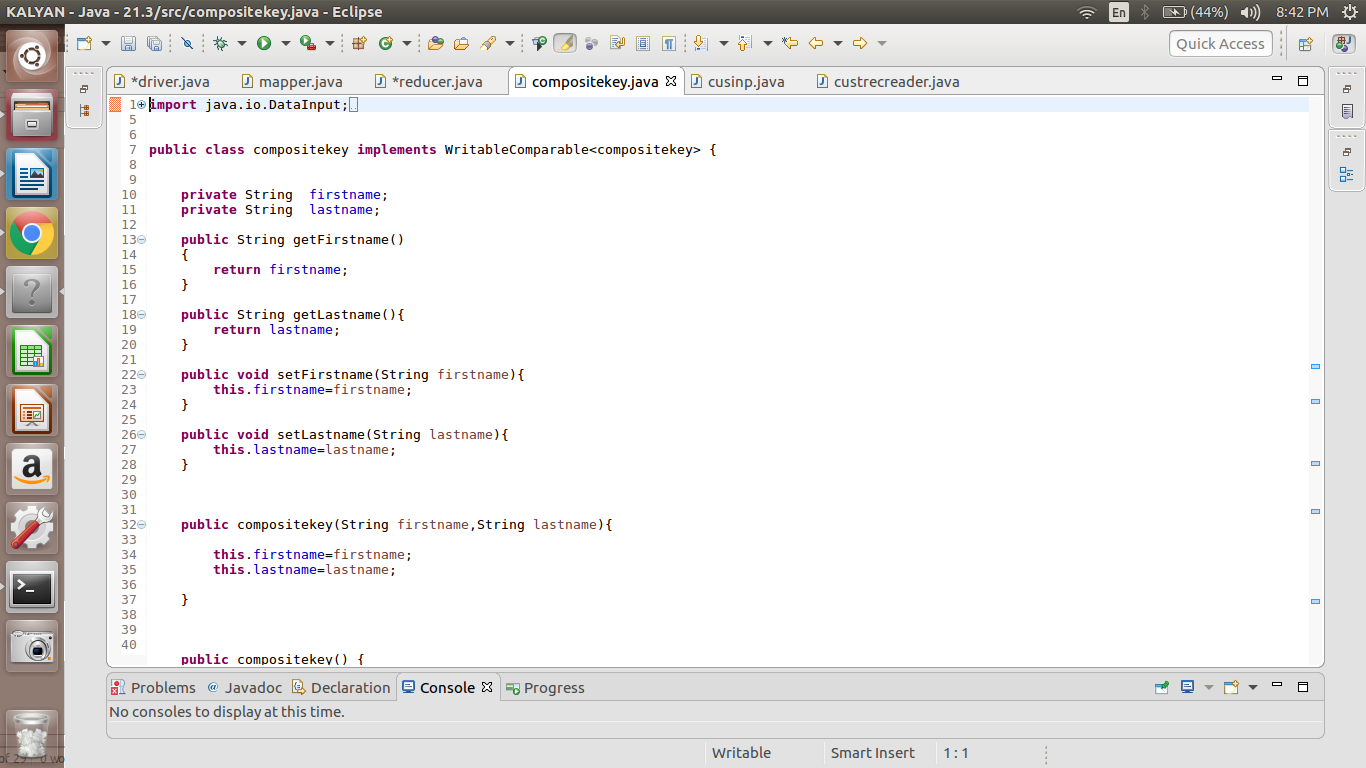
**MAPPER CLASS:**

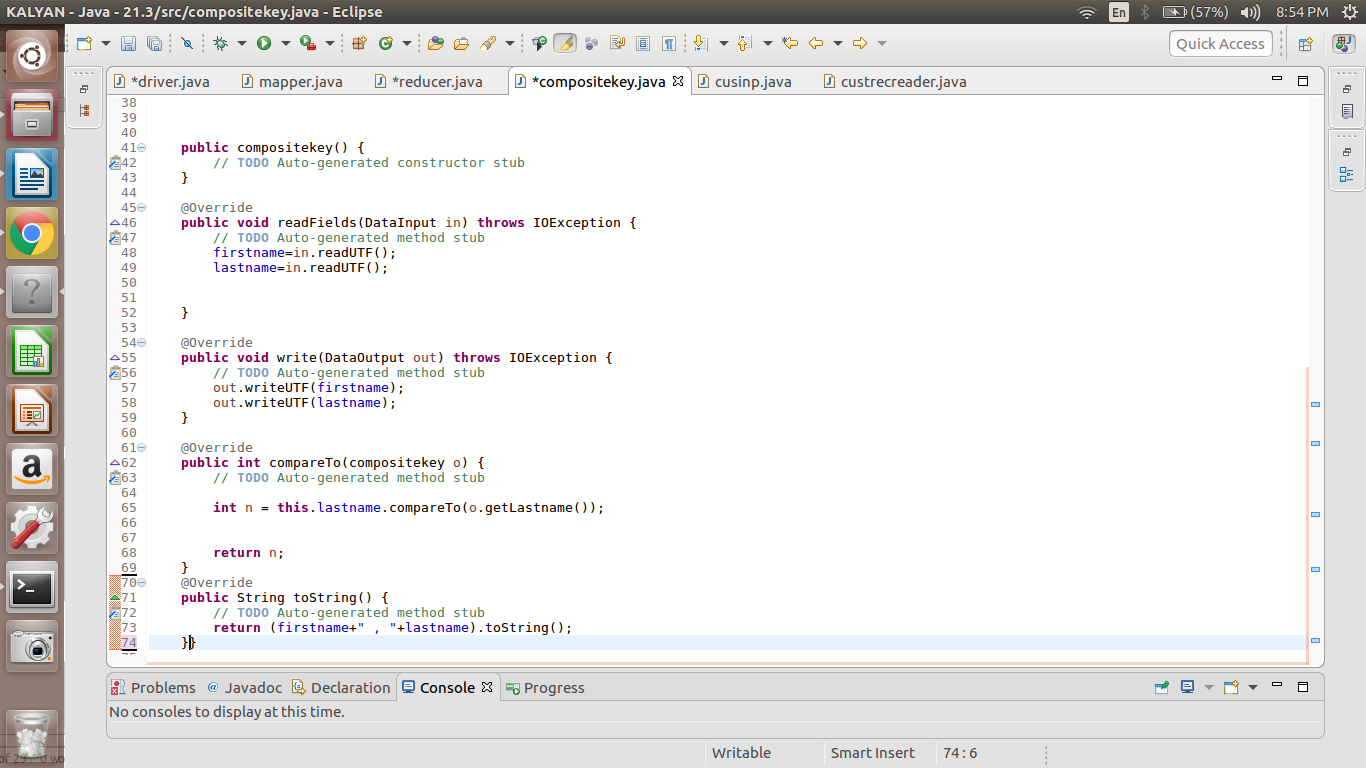
****

**REDUCER CLASS:**

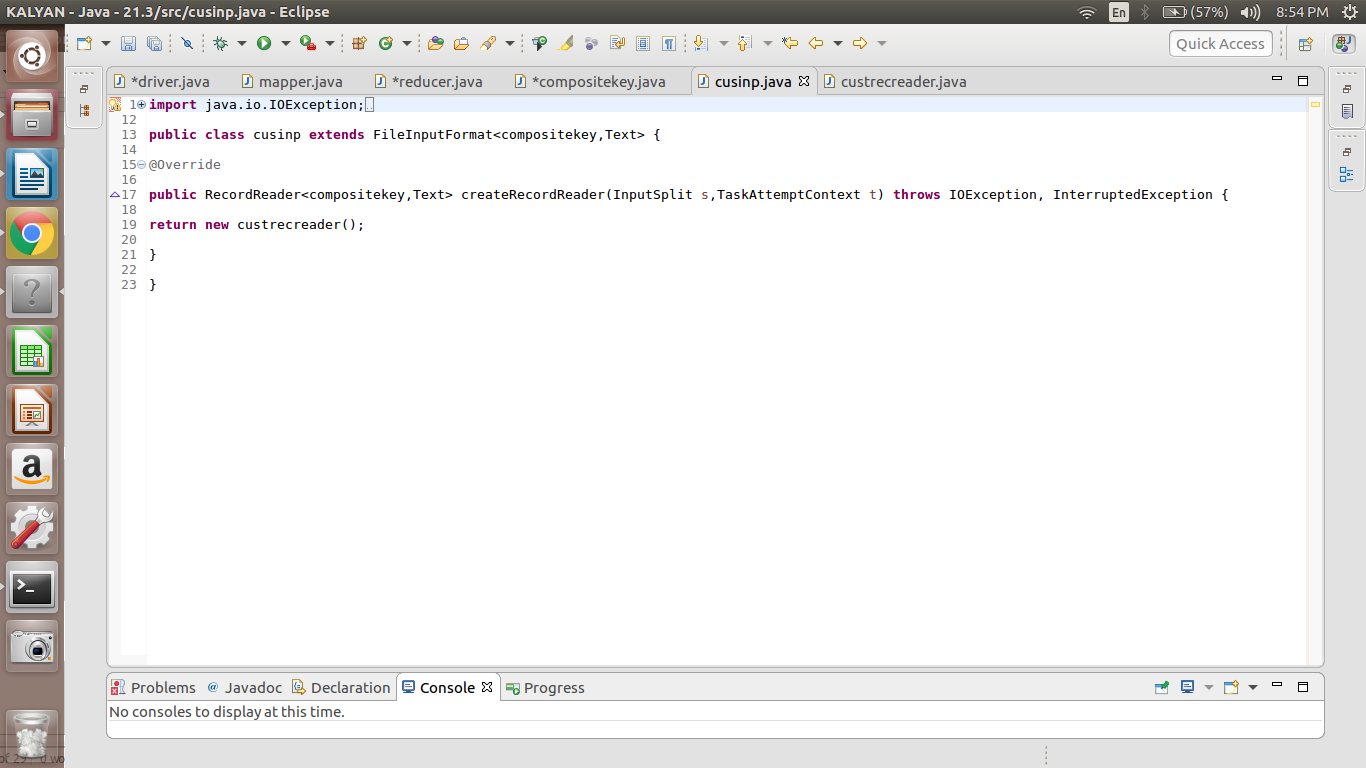
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**COMPOSITEKEY CLASS:**

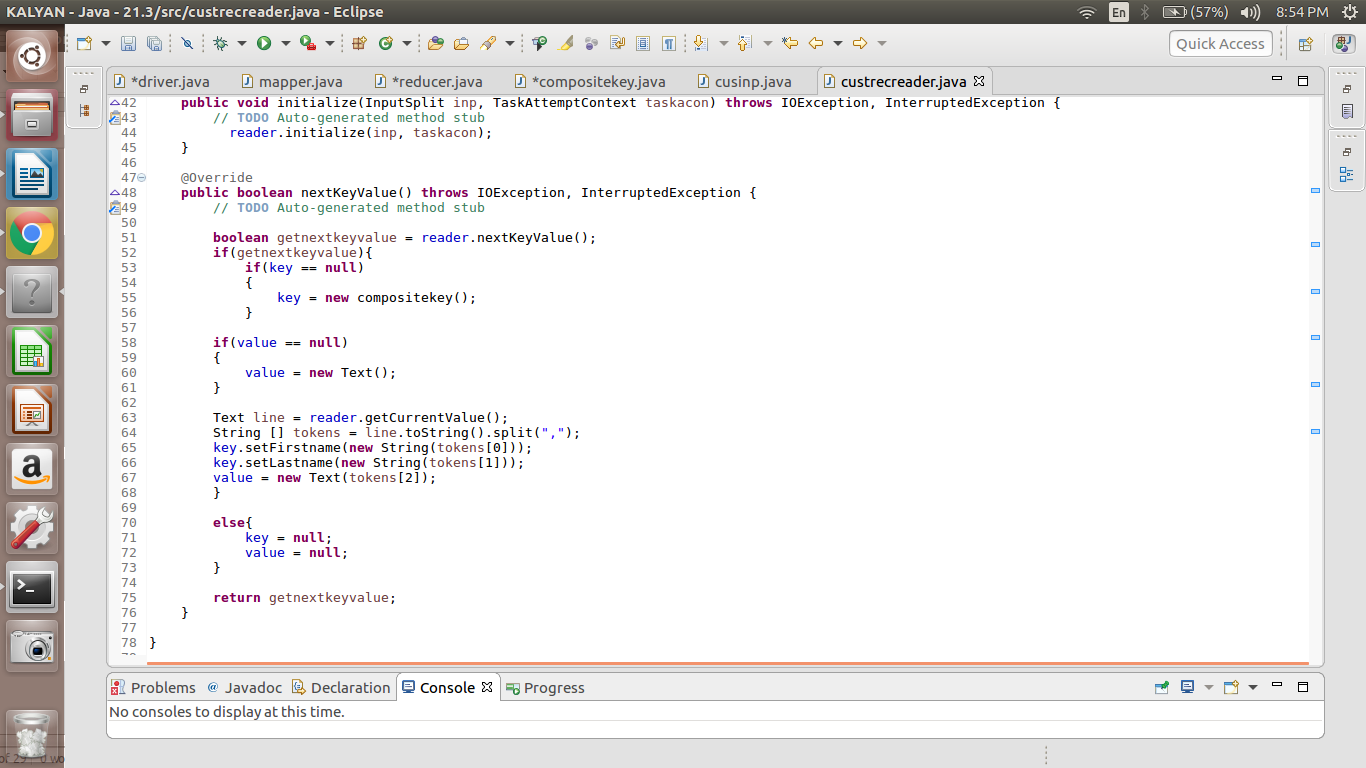
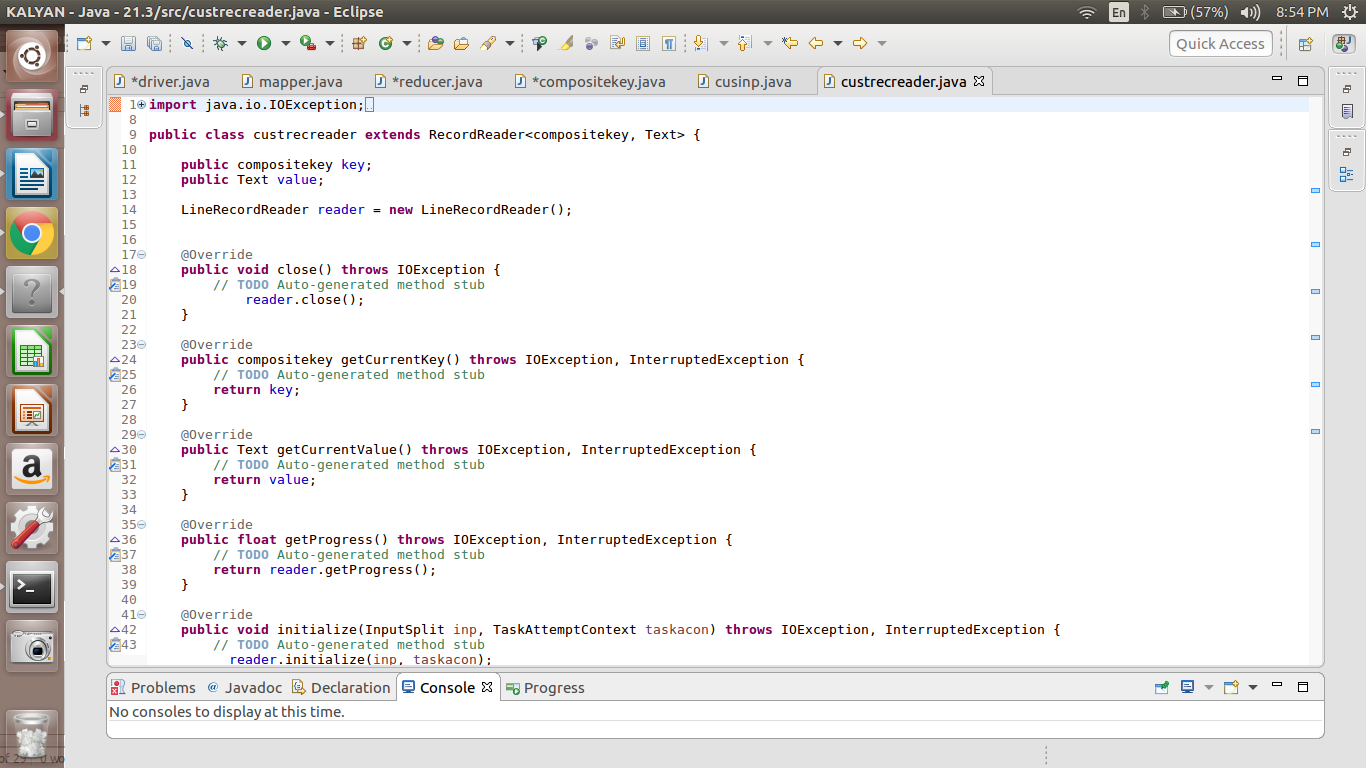
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**CUSTOM INPUT CLASS:**

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**CUSTOM RECORD READER:**

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