**Test Cases**

**File operations:**

* look whether the input data file exists or not.
* look whether the class can read input file or not.
* look whether the class can read the entire input file or not.
* Verify the scenario when file is empty.

**Processing the Data in input file:**

* check with one purchase record and that has only one product.
* check with the purchase record which has zero products.
* check with the purchase records that has 1 product.
* Verify the output when user buys new item which is not part of purchase history.
* look whether the recommended function is returning the expected output or not.
* Verify by adding all products into the shopping cart that are present in purchase records.
* Verify by adding single purchase records products into the shopping cart.
* check if the recommended method is returning up to 5 suggested products or not.
* check if the recommended method is returning the 5 most frequency products or not.
* Verify the behavior of recommend method when the set of purchase cart is same as in the record.
* Crosscheck the behavior of recommend function when the input file is not mentioned with tab space separation.