

# Task

- ☒ Add Unigram to map
- ☒ Add Bigram to map
- ☒ Show Code

The Java file can be found in my quiz7 folder

```
public Term[] toBagOfWords(List<String> document, boolean df)
{
    String PreviousTerm = "null";
    ObjectIntHashMap<String> map = new ObjectIntHashMap<>();
    Term[] terms = new Term[map.size()];
    int id, i = 0;

    for (String term : document) map.add(term);

    for (String term : document) {
        map.add(PreviousTerm+term); // create a bigram - add to map
        PreviousTerm = term;
    }

    for (ObjectIntPair<String> term : map)
    {
        id = getID(term.o);

        if (id < 0) // term doesn't exist
        {
            id = id_count;
            term_id_map.put(term.o, ++id_count);
            term_list.add(new ObjectIntPair<String>(term.o, 0));
        }

        terms[i++] = new Term(id, term.i);

        if (df)
            term_list.get(id).i++;
    }

    Arrays.sort(terms);
    return terms;
}
```

I'm sure you could combine both For-Loops together to be more efficient but for the sake of distinctly seeing both unigrams and bigrams separately, I didn't combine both loops.

Honor Code: I worked with Mourya and Henry.