**The longest Word**:

**Problem:**

In the programming language of your choice create a class with a method to return the length and longest words in a sentence. For example, “The cow jumped over the moon.” should return 6 and “jumped”.

Create unit tests to test that method, reworking your code if needed.

**Solution:**

So, the First task was to get a sentence with multiple words and find out the longest word in that sentence with the length of the word.

The task was completed using the following class: https://github.com/faihasan/TestDemo/blob/master/src/TestDemo1/biggestWord.java

**package** TestDemo1;

**public** **class** biggestWord {

**public** String[] bWord(String sentence){ //bWord object with String Parameter and return type Array

String bigW = **null**;

**int** wordCount = 0;

**int** big = 0;

String[] result = **new** String[2];

String[] bigWord = sentence.split(" "); //Breaking the words with "space"

wordCount = bigWord.length;

**for**(**int** i=0; i<wordCount; i++){ //searching for the biggest word

**if**(big < bigWord[i].length()){

bigW = bigWord[i];

big = bigWord[i].length();

}

}

result[0] = bigW;

result[1] = Integer.*toString*(big);

**return** result; //returned array

}

}

The class biggestWord has a method called bWord that would take a String type parameter and break it into words. Than it compares the longest word in that sentence. The return type is a String as it returns 2 outputs, one is the longest word and one is the Length of that word.

The second task was to validate the code is right. A TestNG class named: ValidationTest was written to get the output. On ValidationTest.java there are 3 test that validates the class. The first one is a static String, the second and third is dynamic input from TestCase.xlsx file.

This is the TestNG class to validate the class:

https://github.com/faihasan/TestDemo/blob/master/src/TestClass/ValidationTest.java

This is the output from the console:

The Biggest Word is: jumped

Word length is: 6

jumped

Test Passed

biggest

Test Passed

PASSED: biggestWord

PASSED: unitTesting1

PASSED: unitTesting2

**Result:**

From the above test it clealy shows that the class biggestWord works as it expected.