```
//Get the number of words in the file using readWord
while((updatedWord = readWord.readLine()) != null)
{

    numWords++;
}
System.out.println(numWords);


//update the word to guess to the random object and number of words read plus one
wordToGuess = rand.nextInt(numWords) + 1;

//iterate through the word to guess slots
for(int i = 0; i < wordToGuess; i++)
{
    secretWord = readWord.readLine();
}

System.out.println(secretWord);

readWord.close();//close your BufferedReader object
in.close();//close your FileReader object
```

```
5
null
```

Logic error: Secret word shows up as null.

```
                }
                readWord.close();//close your BufferedReader object
                in.close();//close your FileReader object


                in = new FileReader(WordGuessFile);
                readWord = new BufferedReader(in);

                //update the word to guess to the random object and number of words read plus one
                wordToGuess = rand.nextInt(numWords) + 1;

                //iterate through the word to guess slots
                for(int i = 0; i < wordToGuess; i++)
                {
                    secretWord = readWord.readLine();
                }

                readWord.close();//close your BufferedReader object
                in.close();//close your FileReader object
```

Initially, the for loop operated after the buffered reader reached the end of the file so it immediately returned null instead of the string value. Fixed by closing and reopening the FileReader and BufferedReader.

```
Please enter a letter (!to guess the entire word)
c
-------

Please enter a letter (!to guess the entire word)
o
-------
```

Letters are not being revealed even though they are correct(word is context).

```
if(secretWord.indexOf(letterGuess) >= 0)
{
    updatedWord = wordSoFar.substring(0,secretWord.indexOf(letterGuess)) + letterGuess +
                  wordSoFar.substring(secretWord.indexOf(letterGuess) + 1, secretWord.length()) ;
}
```

All comparatives were done with respect to the variable wordSoFar, but the displayed word is the variable wordSoFar.

```
if(secretWord.indexOf(letterGuess) >= 0)
{
    updatedWord = wordSoFar.substring(0,secretWord.indexOf(letterGuess)) + letterGuess +
                  wordSoFar.substring(secretWord.indexOf(letterGuess) + 1, secretWord.length()) ;

    wordSoFar = updatedWord;

}
```

Fixed by updating the wordsofar.

```
Please enter a letter (! to guess the entire word)
t
T-------

Please enter a letter (! to guess the entire word)
n
T-N-----

Please enter a letter (! to guess the entire word)
```

Word is TENNESEE. If n was typed it only detects the first n and doesnt replace the rest.

```java
//method to count character occurrences
public static int countChar(String str, String c) //two parameters: a string and a letter guess
{
    int count = 0; //start count at 0
    indexList.clear();  //clear the index list

    for(int i=0; i < str.length(); i++) //iterate through the length of the given string
    {
        if(str.charAt(i) == c.charAt(0)) // if character found in string
        {

            indexList.add(i); // save index value to list
            count++; //increase count by 1

        }
    }

    return count; //return total occurrences
}
```

To fix this i needed to add a method to count occurrences of a guess.

```java
        occurence = countChar(secretWord,letterGuess); //method to count occurrences of guess in secret word

        if (occurence >= 1) {

            StringBuilder updatedWord = new StringBuilder(wordSoFar); //StringBuilder to replace characters in string

            for(int j=0;j<occurence ;j++) //iterate for total occurrences of word.
            {
                index = indexList.get(j); //get index of j'th occurrence

                updatedWord.setCharAt(index, letterGuess.charAt(0)); //replace relevant '-' with the guess

            }

            wordSoFar = updatedWord.toString(); //wordSoFar is updated
        }

    }
```

Then i needed to change the code that updates the displayed word to incorporate both the new method and a for loop to change as many characters as there are occurrences.