

Describe the errors you've encountered while working on this assignment. What caused the error and how do you overcome the error?

```

phrase = phrase.toUpperCase();
for(int i = 0; i < phrase.length(); i++){
    if ((phrase.charAt(i) >= LOW) && (phrase.charAt(i) <= HIGH) ) {
        try
        {
            phraseLetters.add(i, (phrase.charAt(i)) );
        }
        catch (Exception ignored){
        }
    }
}

```

Enter a phrase: **hello world**  
 [H, E, L, L, O]

Instead of adding the whole phrase into the array, when it encounters a space (or not a letter), code simply catches the exception, and breaks the for loop; causing it only to add characters up to the space.

```

phrase = phrase.toUpperCase();
for(int i = 0; i < phrase.length(); i++){
    if ((phrase.charAt(i) >= LOW) && (phrase.charAt(i) <= HIGH) ) {
        phraseLetters.add(phrase.charAt(i));
    }
}

System.out.print(phraseLetters);

```

Enter a phrase: **hello world**  
 [H, E, L, L, O, W, O, R, L, D]

This error occurred because it was trying to add a char into an index that was out of bounds. Solved by adding elements to the end of the array-list, instead of adding them to a specific index. This ensured that no out of bounds exceptions would occur, and the for loop would run fully.