Strings

This worksheet is adapted from Helen Hu's CS POGIL work.

Model A | Literals

Examine the following lines of Java code:

```
1 char letter;
2 letter = 'a';
3 String word = "food";
```

1. What is the **character literal** in lines 1 and 2?
2. What syntax does a programmer use to indicate a character literal?
3. What is the **String literal** in line 3?
4. What syntax does a programmer use to indicate a String literal?
5. What are the two **variables** that have been intialized? What are their **types**?

Model B | String Index

We can visualize a String as a chain of characters, and each character is **indexed** by its position in the String.

Char	f	o	o	d
Index	0	1	2	3

1. What is the index for the character `'d'` in the String `"food"`?
2. How many characters long is the String `"food"`? This is known as the **length** of the String.
3. Draw a similar char/index table for the String `"Hello world"`.
    1. What is the length of this String?
    2. What is the index number of the character `d`?
    3. What is the index of the space?