

Week Three: Research

1. Write a line of code that shows how you would instantiate an ArrayList of String.

If I wanted to initialize an ArrayList of Strings, say of a collection of last names, I would write the code like this: `ArrayList<String> lastNames = new ArrayList<>();`. I tell program that the ArrayList is containing Strings by placing the type *String* between the angle brackets <> and then give the ArrayList the name of *lastNames*. After that I set it equal to a new ArrayList to set aside the specific memory required. If I then wanted to add a specific string as an entry in the list, in this example I will use the last name "Smith", I would use the `.add("Smith")` method. Here's how I would write that: `lastNames.add("Smith");`.

2. Write a line of code that shows how you would instantiate a HashSet of StringBuilder.

If I wanted to initialize an HashSet of StringBuilder, say of a collection of emails, I would first initialize the HashSet like this: `HashSet<String> emailSet = new HashSet<>();`. I tell program that the HashSet is containing Strings by placing the type *String* between the angle brackets <> and then give the HashSet the name of *emailList*. After that I set it equal to a new HashSet to set aside the specific memory required. Now I can initialize a StringBuilder: `StringBuilder strBuilder = new StringBuilder();`. Then, if I wanted to append the domain of the email, let's say gmail.com, onto a specific String contained in the list I would use the `.append()` method, written like this: `emailSet.add(strBuilder.append("@gmail.com"));`.

What is your favorite thing you learned this week?

This is the fourth week I've been enrolled in the Promineo Tech Back-End Software Development program, and I have to say the difficulty and complexity of the programming is already shooting up! This has been my favorite part of this week, the struggle and learning process to figure out how the code works and how best to write and execute certain ideas.

Sources:

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<https://docs.oracle.com/javase/7/docs/api/java/util/ArrayList.html>

<https://docs.oracle.com/javase/8/docs/api/java/util/HashSet.html>

<https://docs.oracle.com/javase/7/docs/api/java/lang/StringBuilder.html>