

Lab Variables and Scanner

Instructions:

- Create a new Java file:
File > New > Java
A new tab opens in jGrasp.
The tab name is something like [Grasp x] where x is a number
- Save the new file in your CS1400 directory and call it LabVariables.java:
 - File > Save
Use the dropdown list next to *Look In:* to navigate to your CS1400 folder
Next to *File Name:* write LabVariables.java
Click the *Save* button
 - The tab name changed to LabVariablesScanner.java
- Create a public class that has the same name as the file
- Inside the body of the class (within the opening and closing braces) create the main method

```
public static void main(String[] args)
{
}
```
- Inside the body of main (between the curly braces) do the following:
- Create a Scanner to read in user input:
 - Add an import statement above (outside) your class declaration like this:

```
import java.util.Scanner;
```
 - Inside the main method create an instance of Scanner:

```
Scanner input = new Scanner(System.in);
```
- Prompt the user for his favorite destination (use `System.out.print` so that the user input will be entered in the same line)
- Create a variable of type String and name it `destination`.
- Read in a String using the method `nextLine()` of the Scanner instance and assign it to the variable `destination`
- Use `System.out.printf` to print a welcome to the favorite destination. Use the format specifier `%s` to print the actual destination entered
- Create a variable of type int called `kingsPeak` and assign it the value 4124
- Create a second variable of type int called `timpanogos` and assign it the value 3581
- In order to make your code easier to read add a single empty line. This will group related statements (the variable declarations and the print statements)
- Use two print statements (`printf`) with one format specifier (`%d`) each to print the values of the two variables.

Here is a sample output:

Favorite destination: **Hawaii**

Welcome to Hawaii

Elevation of Kings Peak: 4124

Elevation of Timpanogos: 3581