

Exercises

Begin by creating a new folder for this weeks work. In your LearnToCode folder create a new subfolder named Workbook2.

Create a new subfolder in your LearnToCode\Workbook2 folder named Mod01 to hold the exercises for this module. The code for each exercise below should be in its own subfolder under Mod01.

EXERCISE 1

Create a Java application called FullNameGenerator that prompts the user to enter the parts of their name. You will then create a new string that holds the users full name.

The user will always have a first and last name, they may also have a middle name and a suffix (ex. Jr, PhD). If a user does not enter a value for the middle name or suffix, the full name should not include that part of the name. If the user has a suffix in their name, the full name should include a comma before the suffix.

```
Glen Williams
Glen C. Williams
Glen Williams, PhD
Glen C. Williams, PhD
```

Make sure to trim any leading or trailing spaces that the user may have entered.

```
Please enter your name
First name: GlenENTER
Middle name: ENTER
Last name: WilliamsENTER
Suffix: ENTER
```

```
Full name: Glen Williams
```

An different trace would be:

```
Please enter your name
First name: GlenENTER
Middle name: C. ENTER
Last name: WilliamsonENTER
Suffix: ENTER
```

```
Full name: Glen C. Williams
```

EXERCISE 2

Create a Java application called `FullNameParser` that prompts the user to enter a name in one of the following two formats:

first last or first middle last

Make sure to trim the name before proceeding in case the user entered leading or trailing spaces.

Parse the name and process it so that you can display the individual pieces of the name.

A sample trace of your program output is shown below. Bolded code is what the user entered.

```
Please enter your name:        Dana L. Wyatt        ENTER
```

```
First name: Dana  
Middle name: L.  
Last name: Wyatt
```

An different trace would be:

```
Please enter your name: Dana WyattENTER
```

```
First name: Dana  
Middle name: (none)  
Last name: Wyatt
```