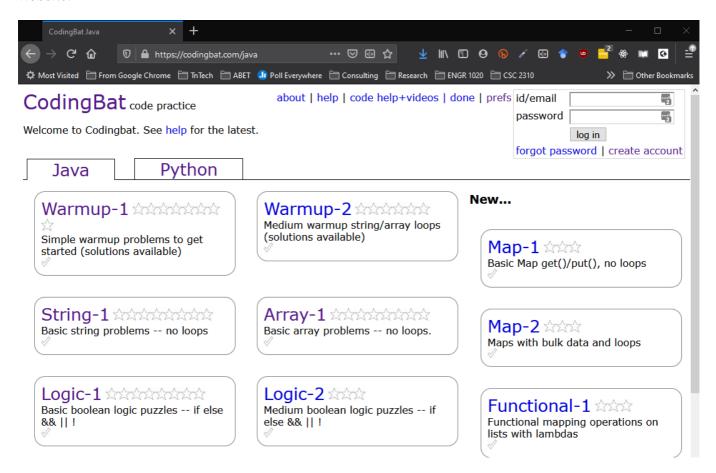# Introduction to Java using Codingbat

CSC 2310

In this lab you will begin learning the Java programming language by writing code using the codingbat website.
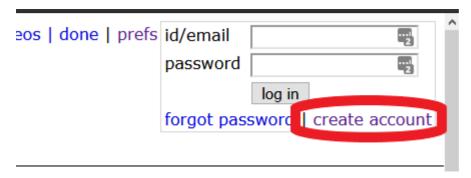

Pre-work

This laboratory makes use of the https://codingbat.com/java website, which contains several exercises for practicing programming using Java. The site uses a *Test-Driven Development* (TDD) approach for programming whereby tests are written first and the goal of the programmer is to make their code pass the test.

Before starting the lab, go to the above link and create an account using your TNTech account by selecting

- Create an account using your TNTech account

- Next, add your lead TA's e-mail address to the **Teacher Share** field, and your Section number to the **Memo** field using the **prefs** menu.

SECTION	DATE / TIME	LEAD TA
Section 101	T 430pm - 545pm	Poudel, Sushil <spoudel42@tntech.edu>
Section 102	R 430pm - 545pm	Poudel, Sushil <spoudel42@tntech.edu>
Section 103	T 300pm – 415pm	Karagoz, Emre <ekaragoz42@tntech.edu>
Section 104	R 300pm – 415pm	Karagoz, Emre <ekaragoz42@tntech.edu>

CodingBat code practice

> CodingBat Home

Account Settings

Change password

Password must contain at least 6 characters

New Password   [   ] [🔳] [show/hide]
                                [Update Password]

Teacher Share

Enter the email address of the teacher account. This will make your done page and solution code visible to that account.

Share To   [   ]
                                [Share]

Memo

Generally this is left blank. A teacher may ask you to fill this in.

Memo   [   ]
                                [Update Memo]

Delete Account

Permanently delete account - cannot be undone

[Delete Account]

privacy statement

Laboratory Description

After creating and configuring your account (and during the assigned lab period), attempt and complete the following exercises:

- String-1/AtFirst: https://codingbat.com/prob/p139076
- Array-1/Double23: https://codingbat.com/prob/p145365
- Logic-1/FizzString2: https://codingbat.com/prob/p115243

The approach you should use to complete these exercises is the following:

1. Add a return statement to the code block, returning a constant of the given type (e.g., `return true;` for a boolean, `return 0;` for an `int`, etc.)
2. Click the "Go" button to observe the tests fail
3. Write the code to make the tests pass

After the laboratory session, and before the beginning of your next laboratory, you must complete the following exercises:

- String-1/MakeTags: https://codingbat.com/prob/p147483
- Array-1/Reverse3: https://codingbat.com/prob/p112409
- Logic-1/AnswerCell: https://codingbat.com/prob/p110973

In addition, you must complete at least one exercise from at least four of the following categories:

- Array-2
- Array-3
- Logic-2
- String-2
- String-3
- Recursion-1

Turn-in

Remember to add your lab instructor to the **Teacher Share** field in the *prefs* menu and your section number to the **Memo** field. **The TA's will create a snapshot of the lab completion report no later than 10 minutes after the assigned laboratory section ends.** You must complete the additional exercises before the end of the next laboratory.

This laboratory is worth 20 points.