

## ASSIGNMENT INSTRUCTIONS

1. Assignment 05: **75 points w/ 0 E.C. points**
2. Due Date & Time: **04-22-2022 at 11:55 PM**

## WHAT TO SUBMIT

1. Assignment Report
2. Code

## HOW TO SUBMIT AND THE RULES TO FOLLOW

- Submit via iLearn, the Assignment Submission section
- Please refer to Assignment 01 for the Assignment Guidelines
- Please follow the Assignment Report Template
- Please follow the Course Policy on Student Conduct and Academic Honesty

PERFORMANCE TRACKER		
ASMT	GRADE	YOUR GRADE
ZOOM	05	
01	20	
02-PREPARATION	25	
02	75	
03	75	
MIDTERM EXAM 01	25	
04	75	
05	75	
MIDTERM EXAM 02	25	
<b>TOTAL</b>	<b>400</b>	

A: 90-100% B: 80-89% C: 70-79% D: 60-69% F: 0-60%

The course grader provides feedback to your assignments on iLearn.

## ABOUT

This assignment aims to add Google Guava Dictionary to our set of skills (to our resume):

- Supporting Materials:
  - Tutorial Topic: How to add Google Guava to our IDEs
  - Tutorial URL: <http://csc220.ducta.net/WEEK-12/dictionaryGoogleGuava-00-HowToImport/index.php>

This assignment is our **last assignment** for this semester. Congratulations and THANK YOU!

## PART A: GOOGLE GUAVA – Importing Google Guava, 20 points

*An exposure to the current best Java IDEs will prepare us for advanced courses, interviews, and future workplaces. Among the most popular Java IDEs are NetBeans, IntelliJ IDEA, Eclipse, Oracle JDeveloper, BlueJ, and Xcode.*

We are following these 2 sets of instructions posted on File Manager to import Google Guava into our IDEs:

- NetBeans: [http://csc220.ducta.net/WEEK-12/dictionaryGoogleGuava-00-HowToImport/GoogleGuava\\_import\\_NetBeans.pdf](http://csc220.ducta.net/WEEK-12/dictionaryGoogleGuava-00-HowToImport/GoogleGuava_import_NetBeans.pdf)
- IntelliJ: [http://csc220.ducta.net/WEEK-12/dictionaryGoogleGuava-00-HowToImport/GoogleGuava\\_import\\_IntelliJ.pdf](http://csc220.ducta.net/WEEK-12/dictionaryGoogleGuava-00-HowToImport/GoogleGuava_import_IntelliJ.pdf)
- More resources:

In this WEEKLY directory: <http://csc220.ducta.net/WEEK-12/>

Explore the directories: dictionaryGoogleGuava-01, dictionaryGoogleGuava-02, and dictionaryGoogleGuava-03

In our assignment report, please clearly demonstrate that we imported Google Guava successfully into **2 IDEs**: the latest version of NetBeans and the latest version IntelliJ. Show all the steps using meaningful screenshots and clear English explanation.

## PART B: GOOGLE GUAVA – Mastering Google Guava, 50 points

Please implement an interactive dictionary. Our dictionary takes input from users and use the input as search key to look up value(s) associated with the key.

1. This assignment does not require following any given skeleton code.
2. We are required to use **Enum** and **Google Guava Multimap** in our implementation.
3. The **Google Guava Multimap** dictionary must get its data from the **Enum** objects.

Our program's output must be identical to the output on the **2<sup>nd</sup>** page.

## PART B'S OUTPUT

```
- DICTIONARY 220 JAVA Standard -----  
----- powered by Google Guava -  
  
Search: book  
|  
  Book: A written work published in printed or electronic form.  
  Book: To arrange for someone to have a seat on a plane.  
|  
Search: boOK  
|  
  Book: A written work published in printed or electronic form.  
  Book: To arrange for someone to have a seat on a plane.  
|  
Search: bookable  
|  
  Bookable: Can be ordered in advance.  
|  
Search: bookcase  
|  
  Bookcase: A piece of furniture with shelves.  
|  
Search: bookbinder  
|  
  Bookbinder: A person who fastens the pages of books.  
|  
Search: cSc220  
|  
  CSC220: Data Structures.  
  CSC220: Ready to create complex data structures.  
  CSC220: To create data structures.  
|  
Search: Facebook  
|  
  <Not found>  
|  
Search: !q  
  
-----THANK YOU-----
```