

# *COMP-352*

## *Tutorial #1*

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# INTRO

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**Ismael Ridha**

**Aerospace Engineering Student**

Email: [ismaelmergasori@gmail.com](mailto:ismaelmergasori@gmail.com)

Familiar with: **C/C++, JAVA, Python, PHP, JS, and MATLAB**

Topics in **Data Structures & Algorithms?**

# COEN-352 Overview

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## Data Structures:

- **DSs** are means of storing data in a pattern-like format favourable in an application.
- These often dictate which algorithms to use and are based on the data we have.
- **Examples:** Arrays, Linked Lists, Stacks, Queues, Trees, Graphs...

## Algorithms:

- **ALGOs** are methods developed for executing some actions on data.
- Algorithms usually depend on the DS and the type of data given. However, it mostly depends on the data.
- **Examples:** Sorting, Searching, Inserting, Deleting, Traversing  
...

# JAVA Development Environment Setup

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**GitHub Repo:** [https://github.com/TheBarzani/COMP352\\_S2023](https://github.com/TheBarzani/COMP352_S2023)

## **Steps:**

1. Download and Install Java compiler
2. Add Java to the PATH
3. Set up an IDE as part of JDK
4. Create your first project and enjoy

## **DEMO:**

- How to use the Assignment's DebugRunner in this class?
- Some notes on how to format the code for the Assignments.

*THANK YOU*

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