

## **COMP90041**

# Programming and Software Development Semester 1, 2021

Lab 1

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#### **Zoom Mode**

- Camera
  - Encouraged but not mandatory
- Questions?
  - Unmute or Chat Area
  - Discussion Board
  - \* Email me (andrew.naughton@unimelb.edu.au)



## Introduction

- \* Tutorials
  - ❖ Tuesday (6) 11:00 − 12:00
  - **❖** Thursday (22) 2:15 − 3:15
- Subject Help
  - StackOverflow/GeeksForGeeks
  - Discussion Board



## Lab Structure

- **❖** Lab Sheet
  - \* Basis for our labs
  - Solutions released by week's end
- Your Questions



#### **About Me**

- Subject Experience
  - \* Semester 1, 2020 (G-Dip)
  - Zero Java programming experience
  - Fun, coding subject
- **\*** Education
  - Master of Computer Science (2021-2022)
  - ❖ Grad. Dip. in Computer Science (2020)
  - \* Bachelor of Commerce (2017-2019)



#### **About Me**

- \* Work
  - ❖ Tutor COMP10001 [Python, undergrad]
  - ❖ Tutor COMP90041 [Java, postgrad]
- Other
  - \* Running, Surfing, Snowboarding, The Office



## What is COMP90041 about?

- Java programming
- **❖** OOP constructs
  - Classes, Objects
  - **❖** Inheritance
  - Encapsulation
  - Polymorphism
- Software design
  - Unified Modelling Language



### ICE BREAKER

- ❖ Your name
- \* Your degree
- An interesting fact about yourself (ideas: speak 3 languages? Ride a unicycle? Part-time busker?)



# **Environment Set Up**

- ❖ Follow step-by-step guide on LMS
- ❖ Do this now if you haven't already



## **IDE Set Up**

- Many options available
  - **❖** IntelliJ
  - Eclipse
  - ❖ NetBeans
  - ❖ VS Code
  - ❖ Vim



#### Javac & Java

- ❖ The javac command is used to compile Java programs into Java bytecode
  - ❖ E.g. javac Example.java
- ❖ The java command is used to compile Java programs into machine code as well as execute it
  - ❖ E.g. java Example



# **Exercises**