ALGONQUIN COLLEGE

# OBJECT ORIENTED PROGRAMMING (JAVA) (CST8284)

# Course Overview & Introduction

## LAB 3

## Constructors Overloading

# Lab 3: Preparations

The essence of this lab is to learn how to work with overloaded constructors and apply the concept of chaining. We also evaluate important concepts on packages, projects and classes in Eclipse.

- Review **all** resources provided to you in the hybrid section
- Review **all** resources provided to you for the lab

# PART 1:

# CONSTRUCTOR OVERLOADING

# CHAINING

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# Outcomes to Demonstrate

- **Show** your Professor your **updated version** of the code provided.
- **Run** your updated file to show that it has no errors and the output is correct (see sample output)
- Answer the Professor's questions
- Run and **show Javadoc output** for the comments in your code

# Part 1: Description

- In this part you will work with a program that provides **four different ways** to create an event planner when she makes reservations for her guests over their activities. **This program:**
  - Accepts input of the event owner's
  - Outputs the chosen date when printing creatReport() output.

# You are required to…

- Create a new project in Eclipse – **Lab 3**

Three files have been provided to you:

  - **EventSchedule.java –** definition of class
  - **DemoTest.java** - a program for test
  - Sample output – showing output example

- **Load** and **review** both **EventSchedule.java** and **DemoTest.java** to understand it.

- Do **NOT** load the sample output file.

# You are required to…(2)

- Review and **update** the **commented** sections in the code.
- Create **EventSchedule** objects using **overloaded constructors** initialized with dates to produce the sample output.
- Note that the sample output assumes DemoTest is executed on Sept. 20, 2022. If you run it on a different dates, then output would be different accordingly.

# You are required to… (3)

- For the **overloaded constructors**:
  - First case: constructor receives **no parameters.**
  - Second case: constructor receives **one integer value.** This is the value of the year
  - Third case: constructor receives **two integer values representing the year and month.**
  - Fourth case: constructor receives **3 integer values representing year, month, and day.**

# Updating your code…

- Ensure that you understand the program and what you have been asked to do.
- Update **only sections** specified (check comments)
- **Review** the **resources** posted for help with this lab
- Run your code and make sure it executes without errors.

# Producing the Sample Output…

- Modify TestDemo.java to produce the sample output.
- Sample output assumes the TestDemo is executed on Sept. 20, 2022.
- You first create an EventSchedule using the no-argument constructor.
- Subsequently create other EventSchedule objects using proper constructors.

# Demo your work…

- Point out to your professor what you did
- Answer questions based on your work
- Get your marks:
  - **4%** for Lab 3
  - Show your comments in Javadoc

# References


- Java How to Program, Early Objects Plus MyProgrammingLab with Pearson eText -- Access Card Package, 11/E. Author: Deitel ISBN: 9780134800271

- Big Java Early Objects, 7/E. Author: Horstmann, C. Wiley. ISBN: eText: 978-1-119-49909-1 or loose-leaf paper: 978-1-119-74020-9.

# Finalizing…

- Remember to **demonstrate your work** to lab professor to receive your mark
- Remember to **review your hybrid task** as specified for the week
- Remember to **keep ahead** by reviewing and starting off the next lab