ICL: Week 4

Due No Due Date   **Points** None   **Available** after Oct 13 at 6pm

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Create a UML class diagram:

- A company has a manufacturing division and a research division.
- The company has a president and two vice presidents. One VP runs manufacturing and the other runs research.
- Each division has employees other than its VP, and it might also have an administrative assistant.
- All manufacturing workers are union members, but none of the researchers. All of the researchers have college degrees, as do some of the manufacturing employees.
- Each employee is paid either by the hour, biweekly, or monthly. Manufacturing workers can get overtime pay, but not researchers. All employees except the president and vice presidents can get bonuses.
- The company manufactures different products, three of which are widgets, gadgets, and gizmos. A gadget can be sold separately, or several can be bundled with a widget. A gizmo can only be sold as part of a gadget.
- The researchers are working on projects to improve the company's existing products or to design new products.

Notes:

- You only need to include class names and relationships (including cardinality). Fields and operations do not need to be included in the class diagram.
- Feel free to work in groups; if you do so, please include all SU usernames in the submission file name.

Submission:

Create a PDF of your UML class diagram (you can take a pic, use Visio, or some other tool, i.e. **draw.io** **(https://www.draw.io/)**). Push your changes to **/week4/ICL/** **(https://github.com/stephen-riley/cpsc-5011-fall-2021-projects/tree/main/week_04/ICL)** . Be sure to commit your changes. Make sure that your changes show up in the `ICL/` folder.