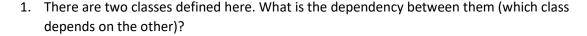
## **CSCI 2300, Spring 2019**

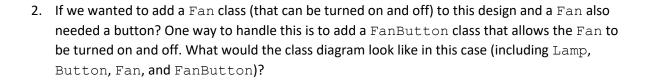
## **SOLID Design Principles Exercises**

In this exercise, we will put theory into practice. In your git repositories, you will find a SOLID directory. Last time we worked with the ISP directory. Today, we will work with the code in the DIP directory.

Form groups with the people that are sitting in your row, and discuss your answers with your group. Review the code in the appropriate directory and answer the questions on this worksheet (one worksheet per student). Put your name at the top of the worksheet.

## **DIP – Dependency Inversion Principle**





3. What is the common behavior between Lamp and Fan?

4.	We can define an Equipment interface for the common behavior of Lamp and Fan classes and have Lamp and Fan classes implement that interface. What would the class diagram look like in this case?
5.	We can now modify the Button class to have a reference to an instance of Equipment object. Draw the class diagram after this modification.
6	Make the pecessary code changes in the DID directory to implement the final re-design
6.	Make the necessary code changes in the DIP directory to implement the final re-design.