

## **CSE 308 Assignment #1 (A2, B2)**

Draw a class diagram and write necessary codes to implement appropriate design pattern so that your code fulfill all the requirements for the following scenarios.

### **Scenario 1**

In many restaurants customers may order children meal which may vary from one restaurant to another, however, the process is same. Children's meals typically consist of a main item, a side item, a drink, and a toy (e.g., a hamburger, fries, Coke, and toy dinosaur). Despite possible variation in the content of the children's meal, the construction process is the same. Whether a customer orders a hamburger, cheeseburger, or chicken, the process is the same. The employee at the counter directs the crew to assemble a main item, side item, and toy. These items are then placed in a bag. The drink is placed in a cup and remains outside of the bag.

### **Scenario 2**

Suppose you have been given the task of designing a computer system to display and print shapes from a database. The type of resolution to use to display and print the shapes depends on the computer that the system is currently running on: the speed of its CPU and the amount of memory that it has available. Your system must be careful about how much demand it is placing on the computer.

### **Deadline:**

2:00 AM, April 18, 2018

**Note:** You must use [bitbucket](https://bitbucket.org/) for version controlling. There will be a percentage of marks allocated for version controlling. So, after implementing a feature, commit the changes and regularly push it to bitbucket. We will validate your commit history.