

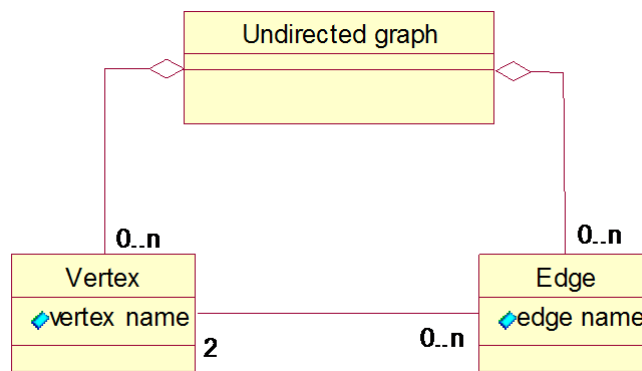
**ROCHESTER INSTITUTE OF TECHNOLOGY**  
**COLLEGE OF COMPUTING AND INFORMATION SCIENCES**  
**SWEN610- Foundation of Software Engineering – (Section 01)**  
**Fall 2020**

***RTD -2: Class Modeling- Proposed solutions***

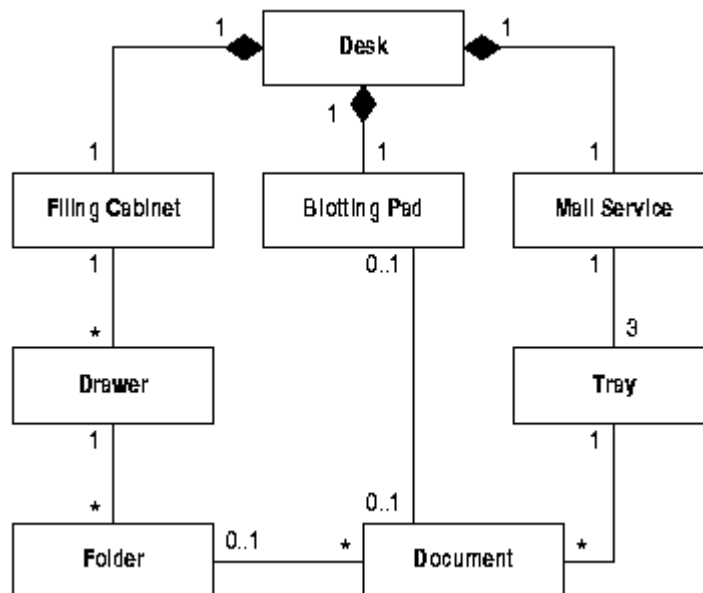
**1. EXERCISE (1)**

*This is was done in Class*

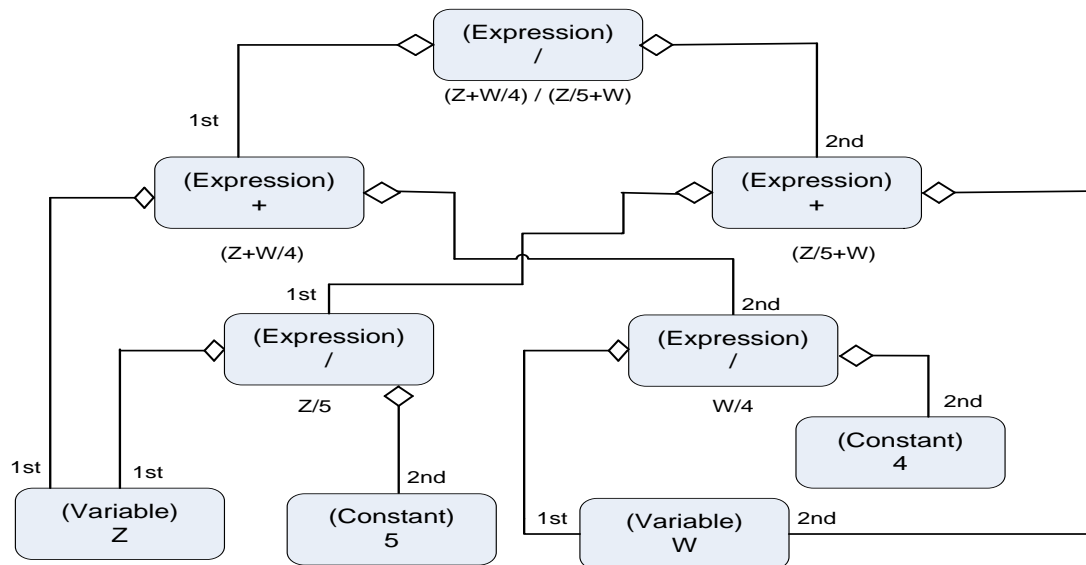
**2. EXERCISE (2)**



**3. EXERCISE (3)**



## 4. EXERCISE (4)



*Note this answer is for the equation :  $(Z+W/4) / (Z/5+W)$ . Same solution can be applied*

## 5. EXERCISE (5)

- Refine the above StateChart to include the new behavior as well as adding the missing suitable transition, transitions labels, guard conditions, entry actions, exit actions. Consider the following actions and activities:
  - Find start of track → **Playing** → entry action
  - Lower head → **Playing state** → entry action
  - Raise head → **Playing state** → exit action
  - Play track → **Playing state** → entry action
  - Open drawer → **Open state** → entry action
  - Close drawer → **Open state** → exit action, **Open state** → exit action
  - Display time → **Playing state** → Activity

## WMGC Puzzle

