

# MAT 335E Programming Algorithms

Lab-9 / CRN : 10611

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## 1 Question 1

Write a java source code that accomplishes the followings:

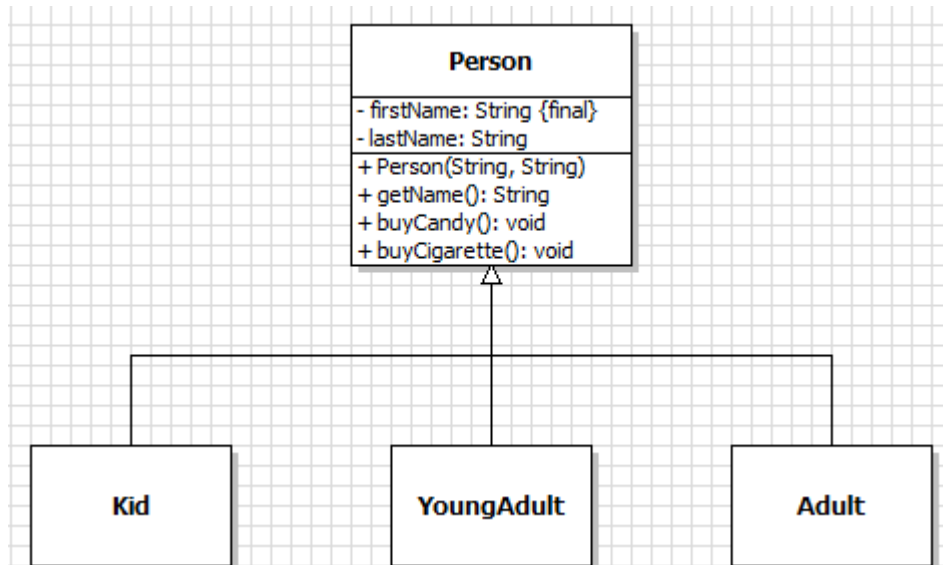
- Write an exception class named **myException** inherited from **IOException**.



- Modify the **register()** method in **DrivingSchool** that was learned in last week's lab session so that it throws **myException**.
- Test the **register()** method in main method.

## 2 Question 2

People will be categorized into three age groups: children, young adults, and adults. Each person must be assigned a unique name, which cannot be altered.



In the **Person** class, the **buyCandy** and **buyCigarette** methods should display a simple message indicating that "contents of these methods differ for each age group". The messages to be provided within these methods for each age group are as follows:

- If the person is a **child**, he/she can buy candy but not a cigarette.
- If the person is a **young adult**, he/she can buy both candy and also cigarette. And when he/she buy cigarette, a message that he/she must stop smoke should be written on the screen.
- If the person is an **adult**, he/she can buy both candy and also cigarette. And when he/she buy candy, a message that he/she must be careful about getting fat should be written on the screen.