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Object Oriented Programming I

Lab Sheet 6 Aggregation

1. Create three classes named Author, Books, Magazine.
   - In Author class include author's First Name, Last Name, Email as instance variables.
   - Implement Constructor and toString() method for that class.
   - Implement the class Book (String BookNo, String BookName) and create reference to the Author class.
   - Implement the class Magazine (String MagazineNo, String MagazineName) and create reference to the Author class.
   - Create class called AggregationExample and create object for Author class and send relevant values through object.
     - Magazine
       - Author's First Name – Amila
       - Author Last Name – Perera
       - Email – amila@gmail.com
     - Book –
       - Author's First Name – Bhagya
       - Author Last Name – Perera
       - Email – bhagya@gmail.com

2. Create two classes: **MedicalRecord** and **Patient**.
   - The MedicalRecord class represents a patient's medical record with a record number and a diagnosis.
   - The Patient class represents a patient with a name and a MedicalRecord object.
   - Create the class **HealthDetails**. In the **HealthDetails** class, create an instance of a MedicalRecord and use it to create a Patient object.
   - The Patient "has" a MedicalRecord, but the MedicalRecord can exist independently and is associated with a specific patient.
   - This demonstrates aggregation in the context of health information.