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**Section:**

**BSE-IVB**

**Department:**

**Software Engineering**

**Course Title:**

**SDA**

**LAB 01:**

**Write the definition and example of Association, Aggregation, and Composition?**

1. **Association**

**Definition:**  
A general relationship between two classes, where they are aware of each other and can communicate, but there is no ownership.

**Example:**  
A Teacher works with many Students.  
But a Student can also have multiple Teachers.

1. **Aggregation (Has-A relationship)**

**Definition:**  
A special type of association that represents a **whole-part relationship**, where the part can exist independently of the whole.

**Example:**  
A Department has many Professors, but if the Department is removed, the Professors still exist.

1. **Composition (Strong ownership)**

**Definition:**  
A strong form of aggregation where the **part cannot exist without the whole**. If the whole is deleted, the parts are also deleted.

**Example:**  
A House has Rooms. If the House is destroyed, the Rooms are also destroyed.

**Write steps of installation of visual paradigm?**

**Visual Paradigm Software**































