



8/10

Course Name & Section \_\_\_\_\_

Date \_\_\_\_\_

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Roll No. 23L-0943

Signature \_\_\_\_\_

Composition:- It's a "has-a" relationship  
Composition is a relationship between two classes in which one class is linked with other class such that ~~there~~ the other class donot have it's independent existence if the parent class is destroyed.

```
class Car:
{
    public void speed();
    { int s = 100;
    }
}

class Engine: public Car
{
    private: int age;
    public: Engine(int a, int s): Car(s);
}
```

Aggregation: Aggregation is such a relationship between two classes in parent class is linked with child class in such a way if parent class is destroyed child class still have it's own independent existence

```
class Library
{
    int books;
    public
    Library(int b);
}
```

```
class Books: public Library
```

```
Library Book(int n): Library(int b)
```



Association:- ~~Two class~~ Both have their  
independent instances.  
class Doctor;

class Patient