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NATIONAL UNIVERSITY
OF COMPUTER & EMERGING SCIENCES
LAHORE



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Quiz #3

Aggregation:-

It is a relationship between two classes. In Aggregation it has a "has" relationship between 2 classes. For example, Company and Employee, Company has employees. If Company object is deleted, Employee object will not be deleted. Without company, employee will exist.

```
class Company {  
    Employee *Emp;  
}
```

```
class Employee {  
    // class members  
}
```

Composition:

It is a relationship between 2 classes, in which it has ownership relation. For example, Person and Birthday.

```
class Person {  
    char *name;  
    Birthday b;  
}
```

```
class Birthday {  
}
```

If Person object is deleted, Birthday will be deleted.

Association:

In this Relationship, if have "is a" relation between two classes. Both classes are not dependent on each other. They can exist without each other.

For Example, Car and Driver

Driver object can exist without a Car object.

```
class Car {
```

```
    Driver d;
```

```
}
```

```
class Driver {
```

```
    // class members
```

```
}
```