

19/10

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Association :

It is a relationship between two classes in which one class uses the functionality provided by the other class.

Example :

```
class person {
    int borrow books()
public:
    void borrow books()
};
```

example shows the function of borrowing books.

Class bank {

```
bank (acc* from, acc* to, float balance);
};
```

class acc {

```
int balance;
int from;
int to;
};
```

One bank
can have
multiple
accounts
is example of
association

Composition :

It is a relationship between two classes in which one class known as composite class contains object of the other class known as component class. Composite class owns the component class and component class cannot exist independently of the composite class.

Example :

Class B {

```
int b;
```

};

Class A {

```
b @. obj; → object of another class
```


Aggregation :

It is a relationship between two classes in which one class known as aggregate class contains a pointer or reference to object of another class known as component class. Classes can exist independently.

Example :

```
class A {  
    int a;  
};
```

```
class B {  
    A* obj; → pointer of another class  
};
```

Class B contains pointer of class A.