Two ways to reuse logic

Inheritance (IS-A)

[Kind-of relationship]

⇓

E.g → Class 1 ⇒ birds

Class 2 ⇒ Sparrow

* Sparrow is a kind-of bird

* Sparrow "IS-A"

Association (HAS-A)

[part-hole relationship]

⇓

Eg → class 1 → Library

class 2 → Book

* Library "has-a" book

⇒ Book and Library doesn't have anything common

Bird

& When an object is an attribute of another class, then aggregation is useful.

Association

Aggregation

Composition

One way Association

Two-way Association