**Aggregation vs Composition:**

1. **Dependency:** Aggregation implies a relationship where the child **can exist independently**of the parent. For example, Bank and Employee, delete the Bank and the Employee still exist. whereas Composition implies a relationship where the child **cannot exist independent** of the parent. Example: Human and heart, heart don’t exist separate to a Human
2. **Type of Relationship:** Aggregation relation is **“has-a”** and composition is **“part-of”**relation.
3. **Type of association:**Composition is a **strong** Association whereas Aggregation is a **weak**Association.

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| // Java program to illustrate the  // difference between Aggregation  // Composition.    import java.io.\*;    // Engine class which will  // be used by car. so 'Car'  // class will have a field  // of Engine type.  class Engine  {      // starting an engine.      public void work()      {            System.out.println("Engine of car has been started ");        }    }    // Engine class  final class Car  {        // For a car to move,      // it need to have a engine.      private final Engine engine; // Composition      //private Engine engine;     // Aggregation        Car(Engine engine)      {          this.engine = engine;      }        // car start moving by starting engine      public void move()      {            //if(engine != null)          {              engine.work();              System.out.println("Car is moving ");          }      }  }    class GFG  {      public static void main (String[] args)      {            // making an engine by creating          // an instance of Engine class.          Engine engine = new Engine();            // Making a car with engine.          // so we are passing a engine          // instance as an argument while          // creating instace of Car.          Car car = new Car(engine);          car.move();        }  } |

In case of aggregation, the Car also performs its functions through an Engine. but the Engine is not always an internal part of the Car. An engine can be swapped out or even can be removed from the car. That’ why we make The Engine type field non-final.

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