class Address

{

int streetNum;

String city;

String state;

String country;

Address(int street, String c, String st, String coun)

{

this.streetNum=street;

this.city =c;

this.state = st;

this.country = coun;

}

}

class StudentClass

{

int rollNum;

String studentName;

//Creating HAS-A relationship with Address class

Address studentAddr;

StudentClass(int roll, String name, Address addr){

this.rollNum=roll;

this.studentName=name;

this.studentAddr = addr;

}

public static void main(String args[]){

Address ad = new Address(55, "Agra", "UP", "India");

StudentClass obj = new StudentClass(123, "Chaitanya", ad);

System.out.println(obj.rollNum);

System.out.println(obj.studentName);

System.out.println(obj.studentAddr.streetNum);

System.out.println(obj.studentAddr.city);

System.out.println(obj.studentAddr.state);

System.out.println(obj.studentAddr.country);

}

}

Another Example: Aggregation Example Code Reusibility

class Address

{

int streetNum;

String city;

String state;

String country;

Address(int street, String c, String st, String coun)

{

this.streetNum=street;

this.city =c;

this.state = st;

this.country = coun;

}

}

class StudentClass

{

int rollNum;

String studentName;

//Creating HAS-A relationship with Address class

Address studentAddr;

StudentClass(int roll, String name, Address addr){

this.rollNum=roll;

this.studentName=name;

this.studentAddr = addr;

}

...

}

class College

{

String collegeName;

//Creating HAS-A relationship with Address class

Address collegeAddr;

College(String name, Address addr){

this.collegeName = name;

this.collegeAddr = addr;

}

...

}

class Staff

{

String employeeName;

//Creating HAS-A relationship with Address class

Address employeeAddr;

Staff(String name, Address addr){

this.employeeName = name;

this.employeeAddr = addr;

}

...

}

**Association Example**

class CarClass{

String carName;

int carId;

CarClass(String name, int id)

{

this.carName = name;

this.carId = id;

}

}

class Driver extends CarClass{

String driverName;

Driver(String name, String cname, int cid){

super(cname, cid);

this.driverName=name;

}

}

class TransportCompany{

public static void main(String args[])

{

Driver obj = new Driver("Andy", "Ford", 9988);

System.out.println(obj.driverName+" is a driver of car Id: "+obj.carId);

}

}