Module 1 - Lecture 11

### Inheritance



### Review

- Classes
- Constructors
- Getters & Setters
- Access modifiers
- Overloading
- Static
- Encapsulation

















### **Definitions**

- **Inheritance** enables a class to take on the properties and methods defined in another class.
- A subclass will inherit the properties and methods from the superclass while adding members of its own.
- A superclass is the base class, or the parent, whose data and behaviors are being passed down.



### **Class Diagram**

#### Person

String firstName;
String lastName;
int age;

#### Chef

String specialty;
int yearsOfExperience;

#### Teacher

String subject;
int studentCount

#### Musician

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String instrument;
boolean isInBand;

## Let's Code!

## Reading

- Module 1
  - Polymorphism



# QUESTIONS?

