Classes

Java Mr. Poole

Methods - Review

Methods do tasks that we want to happen multiple times.

But have we ever wondered what "class starter" does?

```
class starter {
public static int add(int a, int b){
public static void main(String args[]) {
    // Your code goes below here
```

Java - Object Oriented Programming (OOP)

Procedural programming is about writing procedures or methods that perform operations on the data, while object-oriented programming is about creating objects that contain both data and methods.

Object-oriented programming has several advantages over procedural programming:

- OOP is faster and easier to execute
- OOP provides a clear structure for the programs
- OOP helps to keep the Java code DRY "Don't Repeat Yourself", and makes the code easier to maintain, modify and debug
- OOP makes it possible to create full reusable applications with less code and shorter development time=

Java - Classes vs Objects



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Example: Class vs Object

Car is the Class! class Car{ Car contains a String named "brand" String brand = new String("Toyota"); class starter { In our main method we can create a public static void main(String args[]) { Car object! // Your code goes below here Car myCar = new Car(); System.out.println(myCar.brand); We can also reference the Car brand! Try it out!

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Lab - Classes

- 1. Create a "Character" class
- 2. The Character class should have a **String role**
 - a. Role should contain either a Wizard, Warrior, or Rogue
- 3. Then create **4 integers** of each of the stats from your review lab
 - a. Strength, Dexterity, Intelligence, Charisma
- 4. For now, we can hard code values in.

Part 2

- 1. Create a Character object
- 2. Print out each of the stats given in the class.