Inheritance

Overview: Inheritance is a fundamental topic in computer science. Basically, we can create superclasses that we can derive subclasses from. This can simplify our code and make our code more powerful.

Code: https://github.com/kdutta9/CS-Education

Let's walk through a simple example. Here is a simple Animal class.

```java
/** This class will help teach us about Java and inheritance. **/
public class Animal {

    /** The amount of money in our Account. **/
    public String name;

    /** Define our class in the constructor. **/
    public Animal(String name0) {
        name = name0;
    }

    /** Eat some food. **/
    public void eat(String food) {
        System.out.print(name + " is eating " + food + ".");
    }

    /** Say something. **/
    public void speak() {
        System.out.print("");
    }
}
```

Now, add this functionality:
1. Create a Dog class: add methods to fetch and bark (fetch() and speak())
2. Create a Cat class: add methods to meow (speak())
3. Create a Bird class: add methods to caw (speak()) and fly (fly())
4. Create a Puppy subclass (modify fetch and speak)
5. Create a Parrot subclass (modify speak to include parameter and English)

These should all be done in different files.