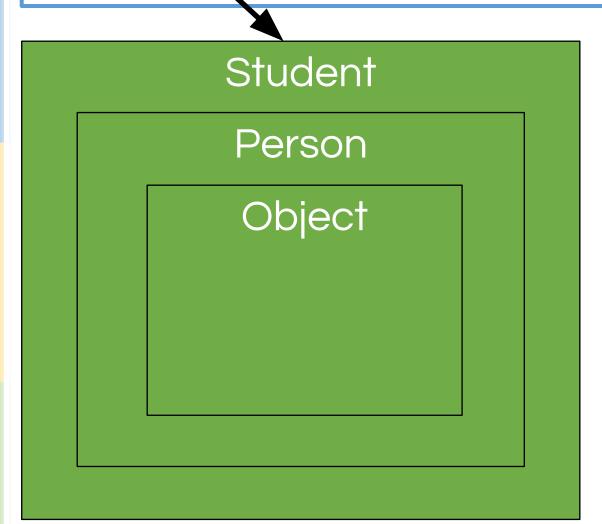
# Initializing Variables in a Class Hierarchy



#### By the end of this video you will be able to...

 Use same-class and super class constructors in class creation Student & = new Student();



```
public class Student extends Person
{
}
```



```
public class Student extends Person
{
  public Student()
  {
    super();
  }
}
```

### But how do we initialize name?

```
public class Person extends Object
{
  private String name;
  public Person() {
    super();
  }
}
```

### Initialize name variable

```
public class Person extends Object
{
  private String name;
  public Person( String n ) {
    this.name = n;
    super();
  }
}
```

```
public class Person extends Object
{
  private String name;
  public Person( String n ) {
    this.name = n;
    super();
  }
}
```

# ERROR! super() has to be the first line!

```
public class Person extends Object
{
  private String name;
  public Person( String n ) {
    super();
    this.name = n;
  }
}
```

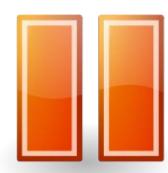
```
public class Person extends Object
{
  private String name;
  public Person( String n ) {
    super();
    this.name = n;
  }
}
```

```
public class Student extends Person
{
  public Student()
  {
    super();
  }
}
```

# Initialize name variable in student

```
public class Person extends Object
{
  private String name;
  public Person( String n ) {
    super();
    this.name = n;
  }
}
```

```
public class Student extends Person
{
  public Student( String n )
  {
    super();
    this.name = n;
  }
}
```



```
public class Person extends Object
{
  private String name;
  public Person( String n ) {
    super();
    this.name = n;
  }
}
```

```
public class Student extends Person
{
  public Student( String n )
  {
    super();
    this.name = n;
    super(n);
  }
}
```

```
public class Student extends Person
{
  public Student( String n )
  {
    super(n);
  }
}
```

#### Let's add a noarg constructor

```
public class Student extends Person
public Student( String n )
  super(n);
 public Student ()
  super( "Student" );
```

```
public class Student extends Person
 public Student( String n )
  super(n);
 public Student ()
  this ( "Student" );
```

#### Use our same class constructor

