

Field and local variable with the same name - example.

```

field → public class . . . . .
        private int numStudents;

        :
        public int addStudents()
        {
local variable → // calculate n
                  int numStudents;
                  :
field →          numStudents = n;
                this.numStudents
                  += numStudents;
    
```

Good use of a field and local variable with same name in a constructor

```

field → class MyClass . . .
        private int quickness;
        :
constructor → public MyClass(
                int quickness)
                {
                this.quickness = quickness;
                }
    
```

used to build an object

```
public void myMethod()
```

```
{
```

```
    int n;
```

```
    :
```

```
}
```

```
public void anotherMethod()
```

```
{
```

```
    int m = n;
```

```
    :
```

```
}
```

compiler
error:
I don't
know what
"n" is!

