OODP– Session 4c

Session times

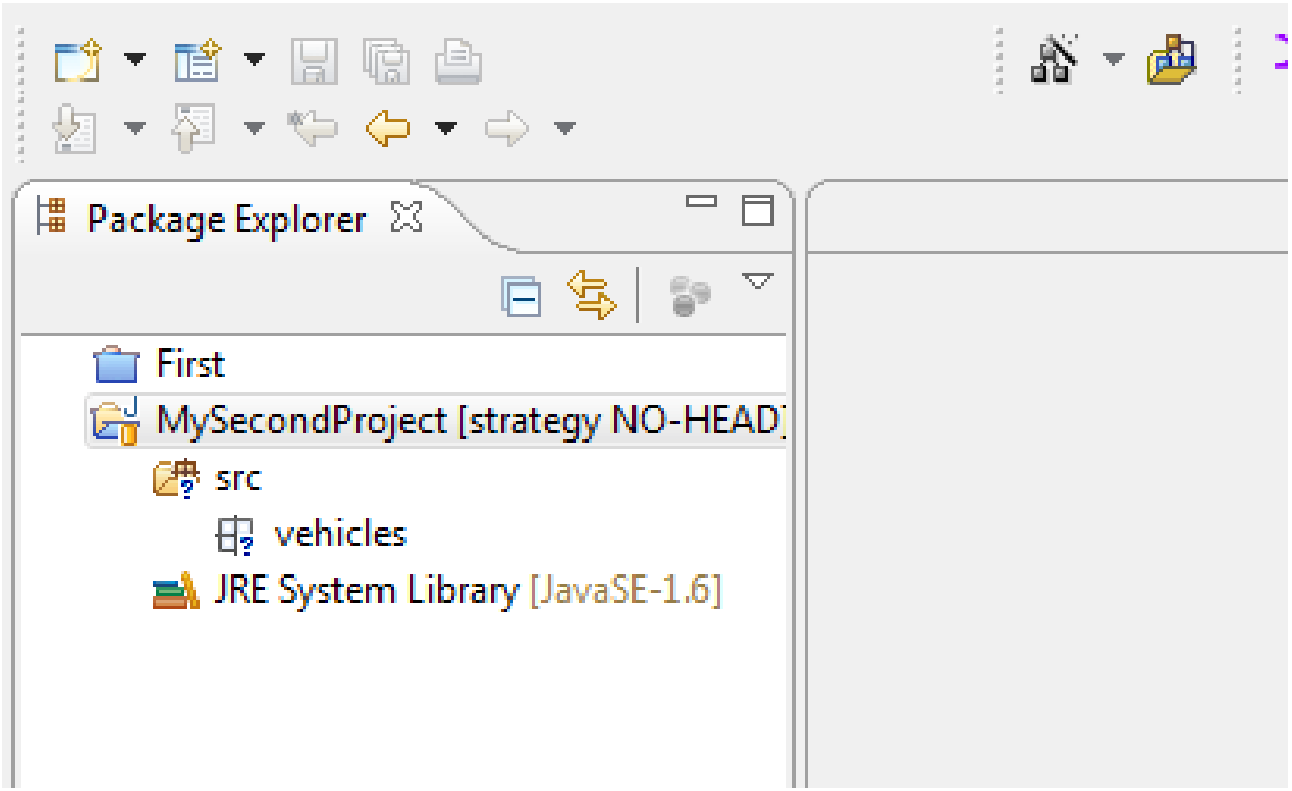
PT group 1 – Monday	18:00-21:00	room: Malet 403
PT group 2 – Thursday	18:00-21:00	room: Malet 407
FT - Tuesday	13:30-17:00	room: Malet 404

Email: oded@dcs.bbk.ac.uk

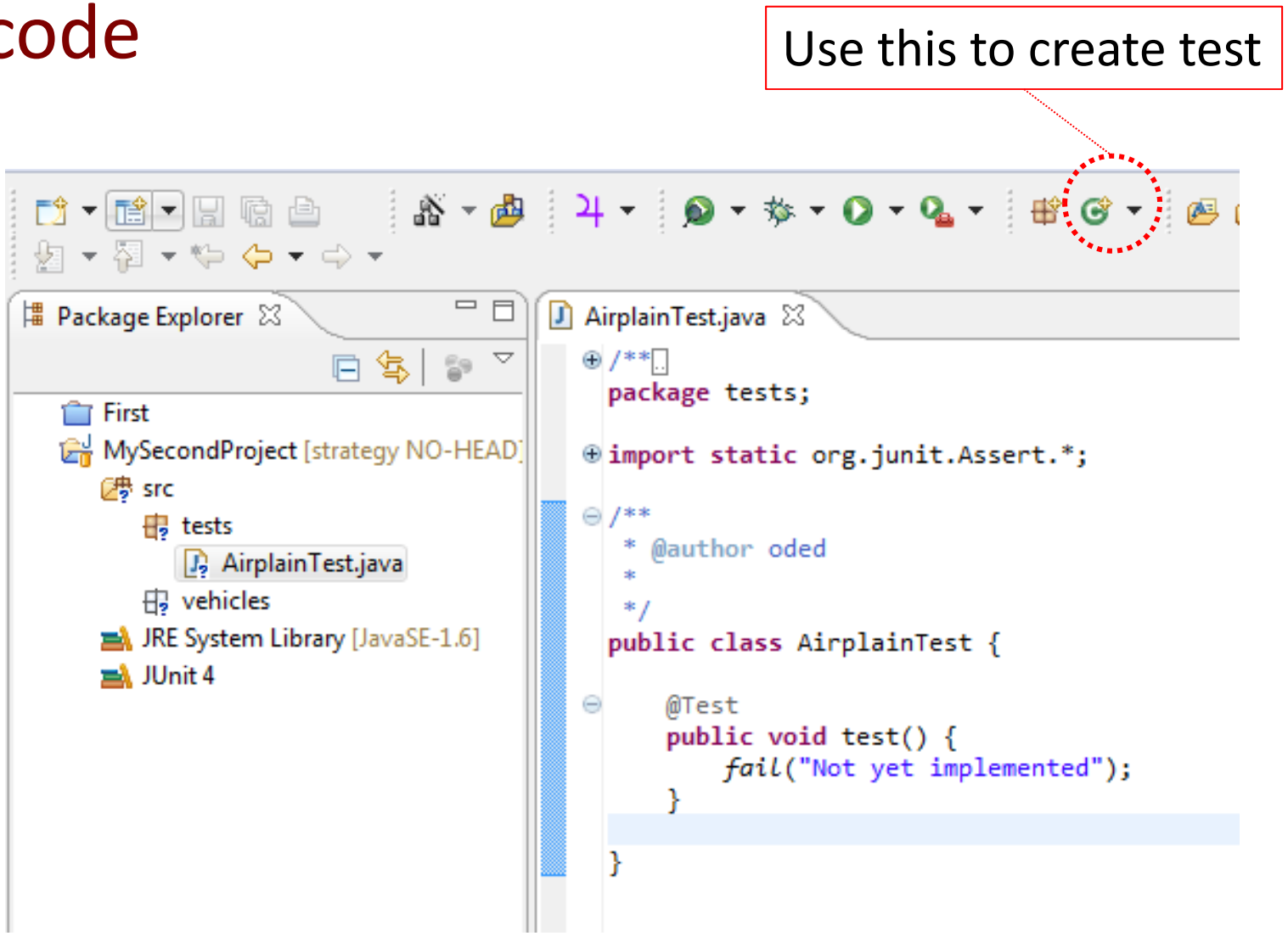
Web Page: http://www.dcs.bbk.ac.uk/~oded

Visiting Hours: Tuesday 17:00 to 19:00

Start a new project



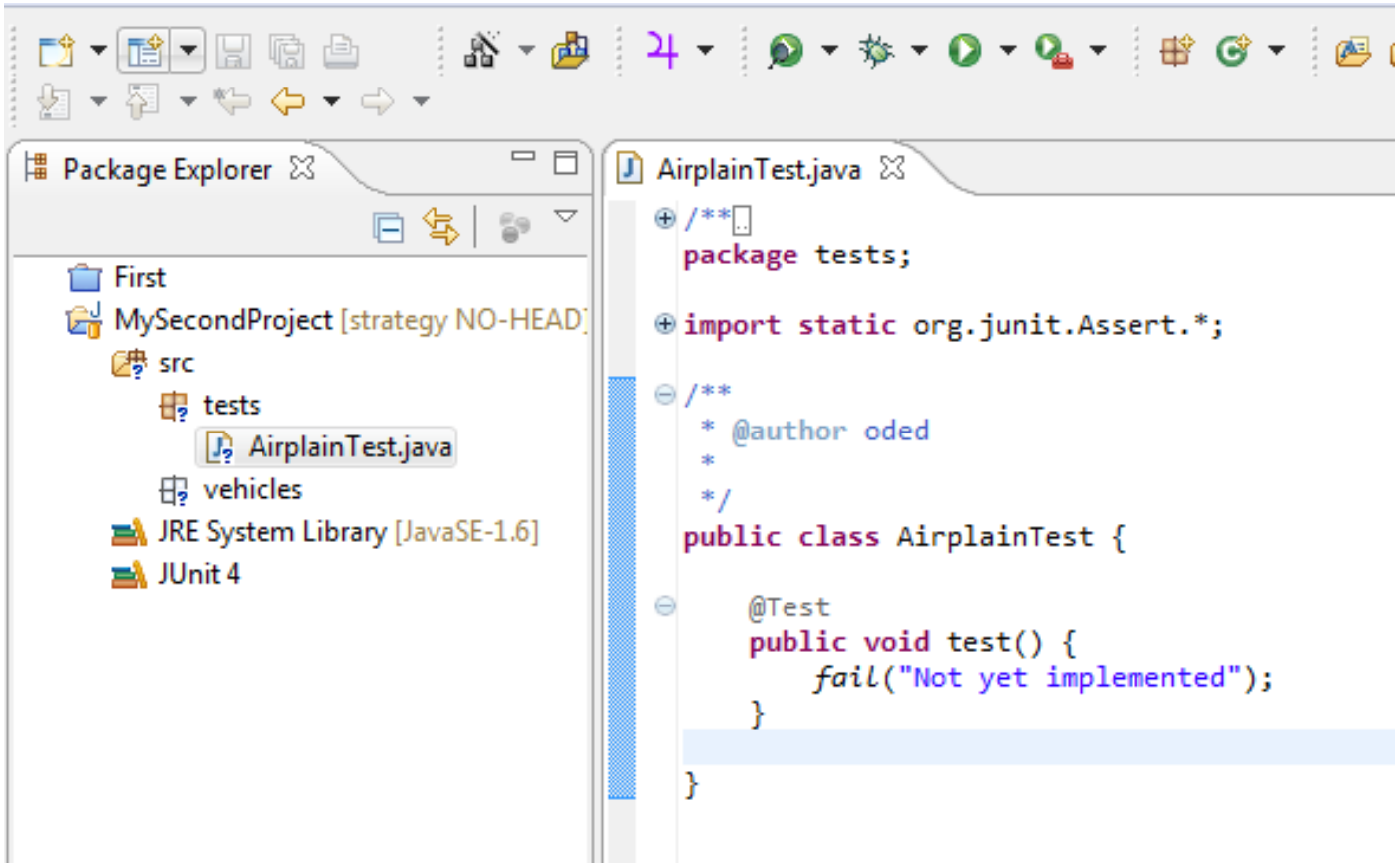
New code



Remember to check that the test fails

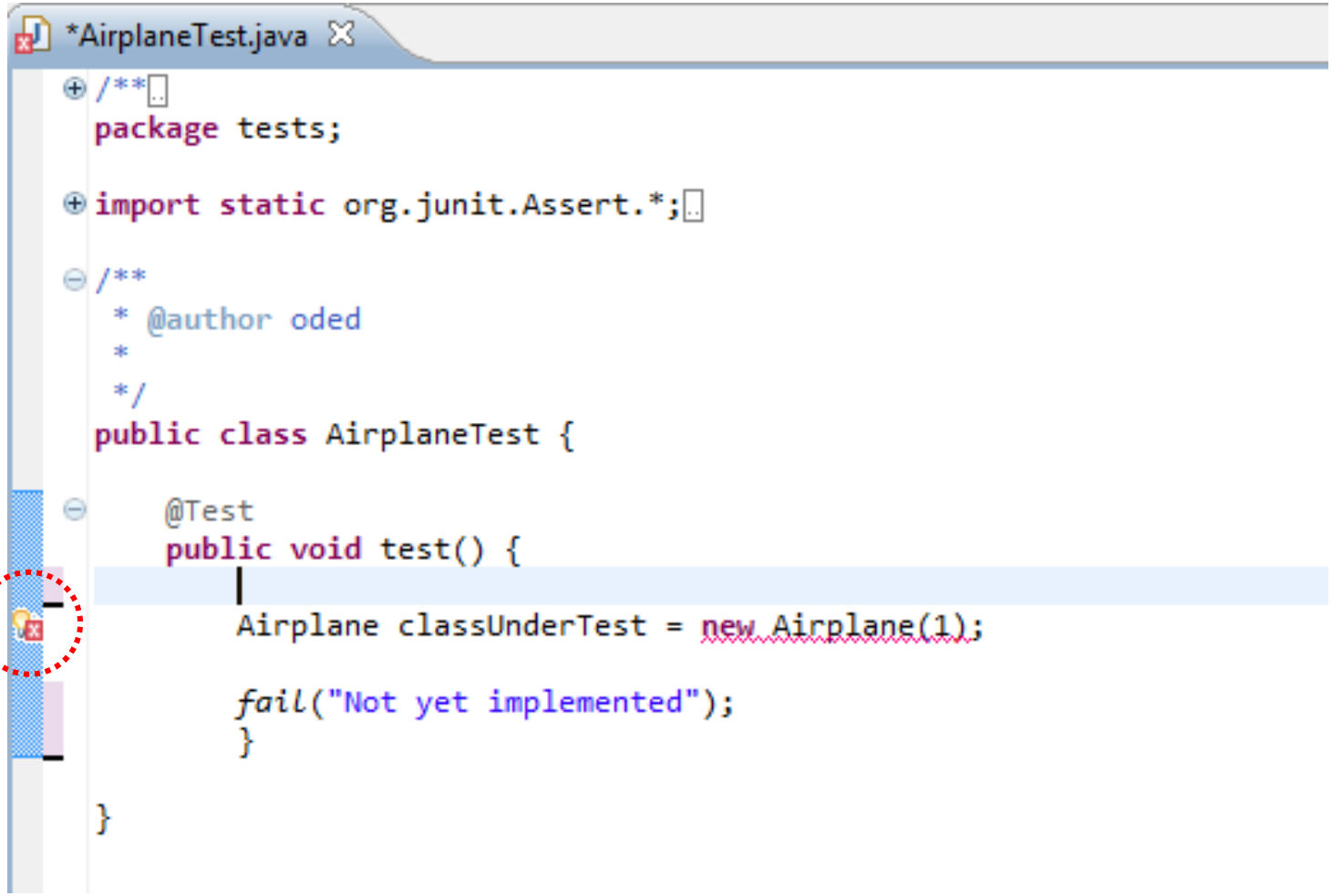
Start a new project

Don’t



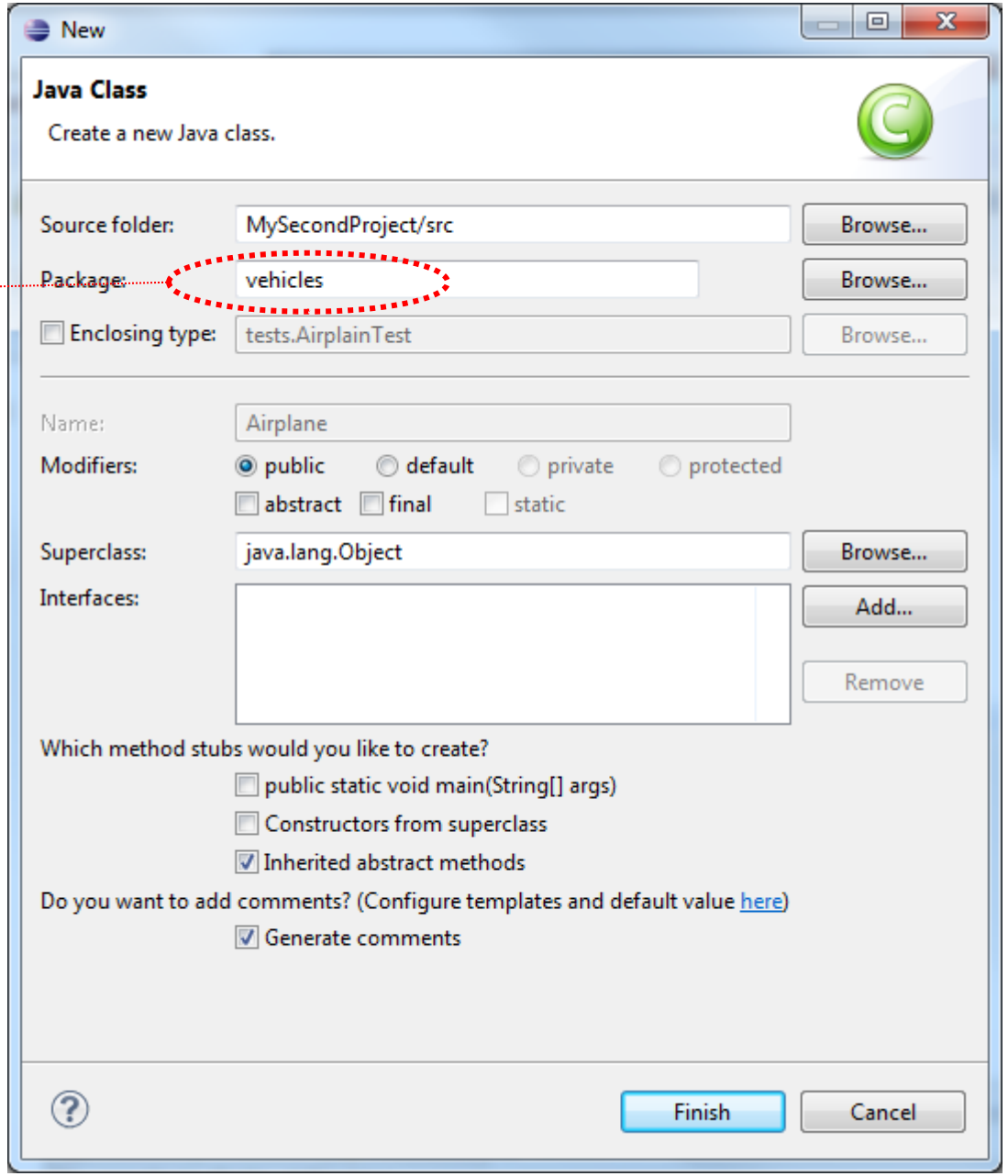
Preparing for a new class

Use this to create *Airplane* class



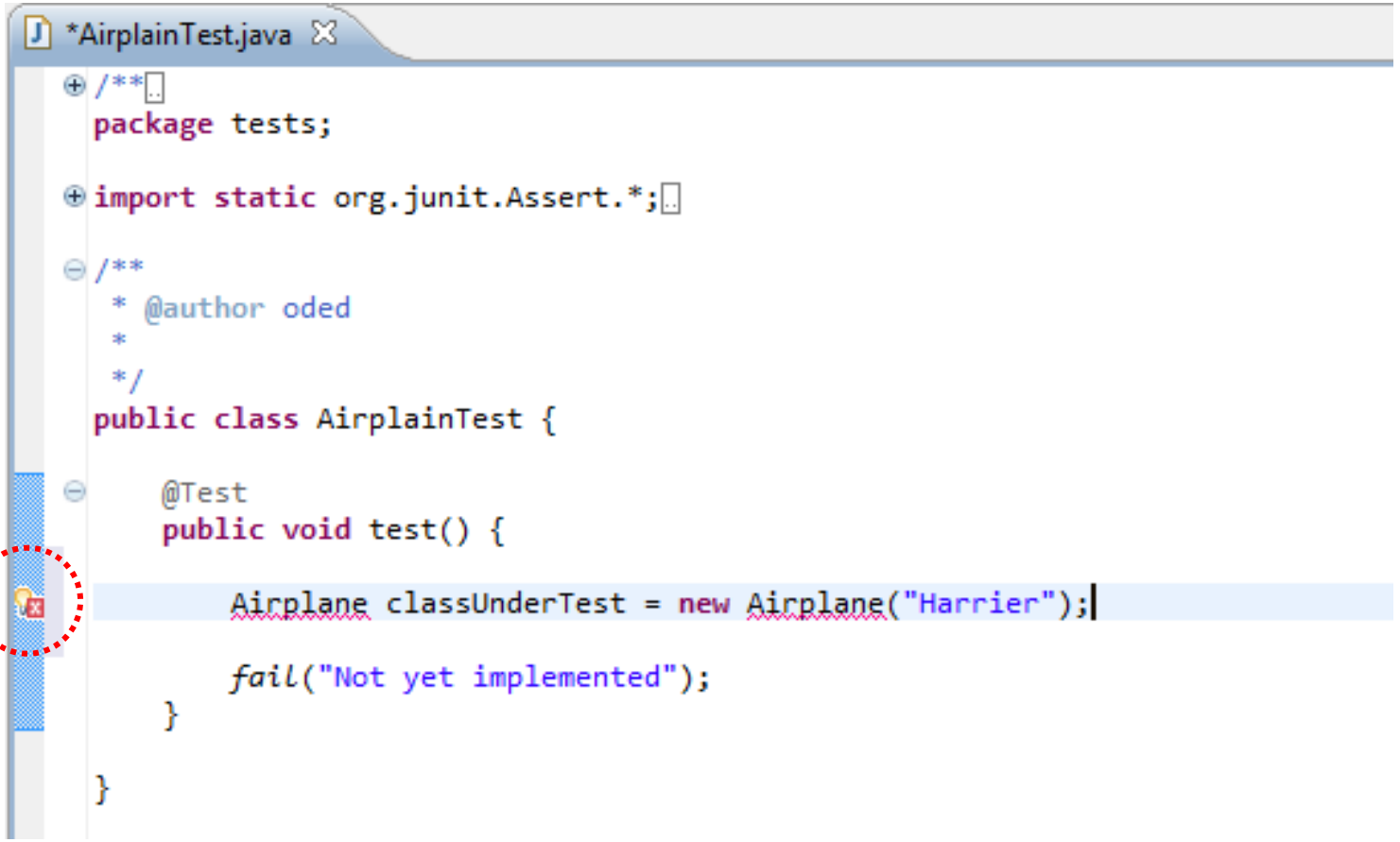
New class

Make in proper Package



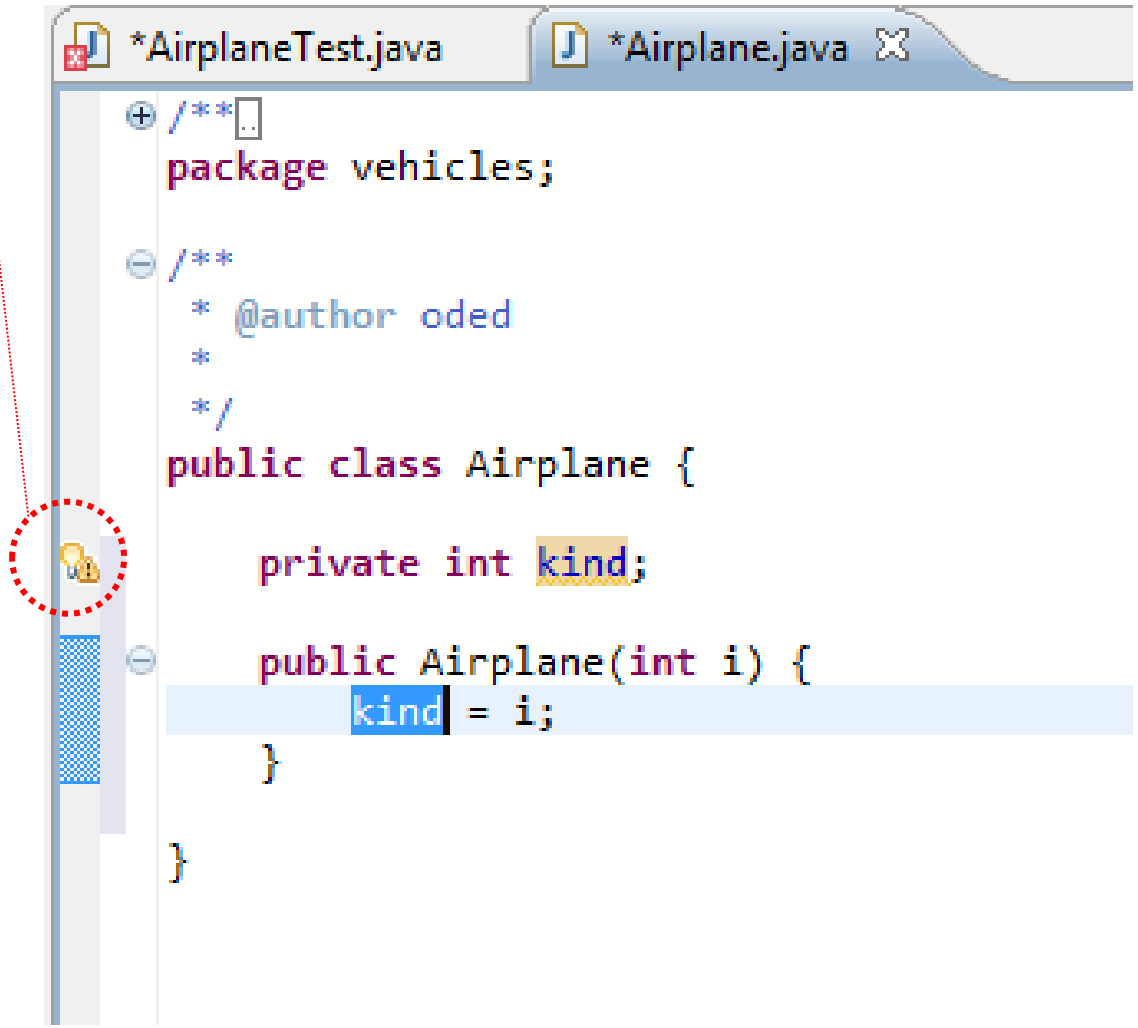
Creating the constructor

Use this to create the constructor for *Airplane* class



New Airplane code (with addition of a field)

What is this?



Run test and if no problems commit

New test code

```
public void test() {

        String expectedOutput = "Like a Harrier";
        String stringReturned = null;

        Airplane classUnderTest = new Airplane(1);

        stringReturned = classUnderTest.howDoYouFly();

        assertEquals("Wrong Answer !",  stringReturned, expectedOutput);
}
```

1. Use IDE to create new method in airplane class

2. Run test – if fails commit

Code may require adjusting if copy pasted

New how do you fly method

```
public String howDoYouFly() {
        switch(kind){
        case 1: return "Like a fighter jet";
        case 2: return "I don't fly";
        case 3: return "Like a passenger plane";
        default: return null;
        }
}
```

1. Run test – if passes commit

New Liftoff test

```
@Test
public void test2() {

        String expectedOutput = "Vertically";
        String stringReturned = null;

        Airplane classUnderTest = new Airplane(1);

        stringReturned = classUnderTest.howDoYouLiftOff();

        assertEquals("Wrong Answer !", stringReturned, expectedOutput);

}
```

1. Use IDE to create new method in airplane class

2. Run test – if fails commit

howDoYouLiftOff Code (for airplane class)

```
public String howDoYouLiftOff() {
      switch(kind){
      case 1: return "Vertically";
      case 2: return "I Liftoff";
      case 3: return "Horizontally";
      default: return null;
      }
}
```

2. Run test – if passes commit

Now Apply the Strategy Pattern