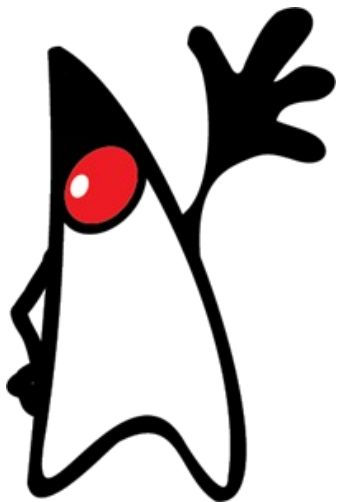




Classes part 2 in practice

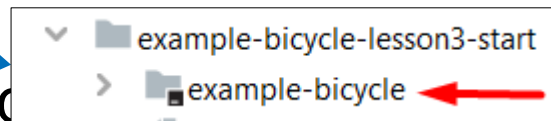


Create your own new class in IntelliJ

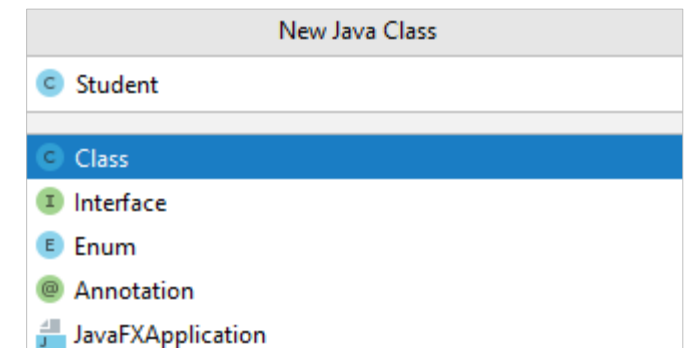
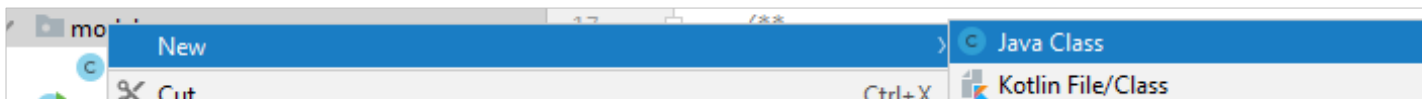
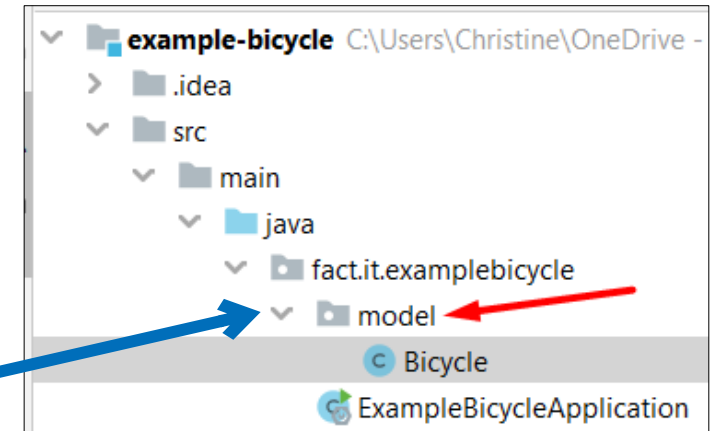


- Download the zip-file "example-bicycle-lesson3-start" and unzip the project.
- Open the **project** in IntelliJ

- You can see this project structure



- To create your own class:
 - Right click on the package **model**
 - Choose New > Java Class
 - Give the class the name **Student**
 - Press Enter



Create a new class in IntelliJ



package

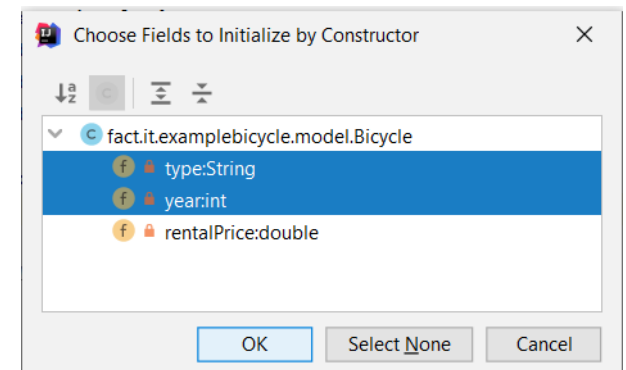
```
fact.it.examplebicycle.model;
```

```
public class Student {  
}
```



code 00 part 2 practice.txt

- Copy the code of the class Student from presentation *3a Classes part 2 theory* to your class in IntelliJ ([slide 12](#) to [16](#)) or copy from the file in the upper right corner of this slide.
- In the class Bicycle:
 - Add the *overloading* constructor with 2 parameters using Generate... and selecting the 2 parameters: ([slide 6](#))
 - Add the overloading method *increasePrice* (*double increment*) ([slide 10](#))
- **Run the tests** and correct any errors



Example: ExampleBicycleApplication.java



```
@SpringBootApplication
public class ExampleBicycleApplication {

    public static void main(String[] args) {
        SpringApplication.run(ExampleBicycleApplication.class, args);
        // write code starting after this line
        Bicycle myBicycle = new Bicycle();
        myBicycle.setType("ladies bicycle large");
        myBicycle.setYear(2016);
        myBicycle.setRentalPrice(4.5);

        System.out.println("You created a Bicycle-object with the following values:");
        System.out.println("The type of your bicycle is: " + myBicycle.getType());
        System.out.println("The year of your bicycle is: " + myBicycle.getYear());
        System.out.println("The rental price of your bicycle is: " + myBicycle.getRentalPrice());

        myBicycle.increasePrice();
        System.out.println("After increasing the price, the rental price is now: " + myBicycle.getRentalPrice());
        System.out.println("And the price per year is: " + myBicycle.getPricePerYear());

        System.exit( status: 0);
    }
}
```

Put your cursor here and type the following code:

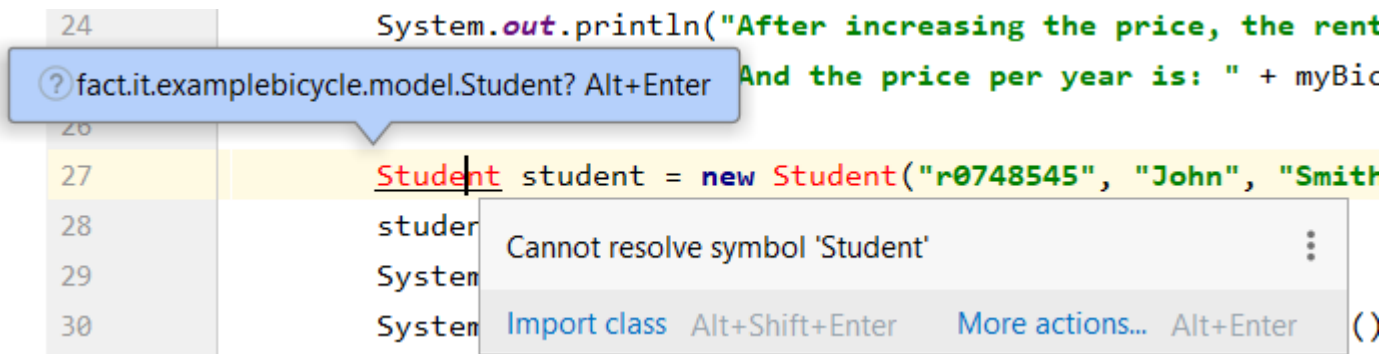
```
Student student = new Student ("r0748545", "John", "Smith");
student.setForeigner(true);
```

Creating a Student Object



```
Student student = new Student("r0748545", "John", "Smith" );  
student.setForeigner(true);
```

Error resolution: Click on the error and press Alt+Enter
or Choose "Import class"



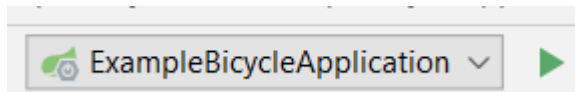
Using a Student Object



- Complete further

```
System.out.println("Student data:");  
System.out.println("Full name: " + student.getFullName());  
System.out.println("Email: " + student.getEmailAddress());
```

- Run the *ExampleBicycleApplication*



```
The year of your bicycle is: 2016  
The rental price of your bicycle is: 4.5  
After increasing the price, the rental price is now: 5.0  
And the price per year is: 60.0  
Student data:  
Full name: John SMITH (JSm)  
Email: r0748545@student.thomasmore.be  
2021-01-11 11:16:49.412 INFO 22240 --- [extShutdownHook]
```