



1. Declaring a class
2. Creating a class in IntelliJ
3. Default constructor
4. Attributes and methods

Defining classes

Declaring a class

1. Declaring a class

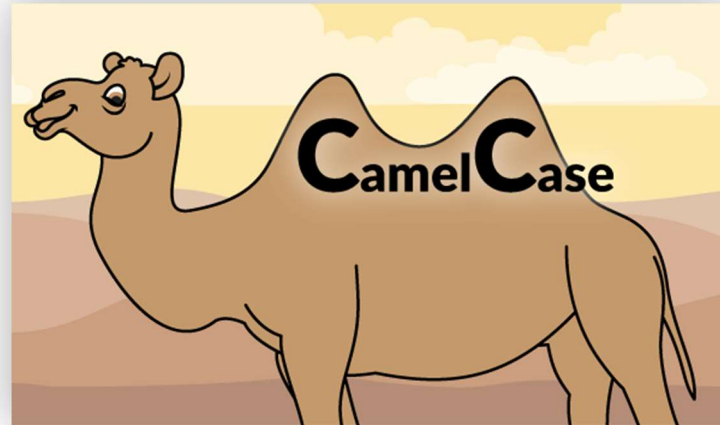
```
public class MyClass {  
  
    // field declarations  
    // method implementations  
  
}
```

1. Declaring a class

```
public class MyClass {
```

Upper Camel Case RULE

```
}
```



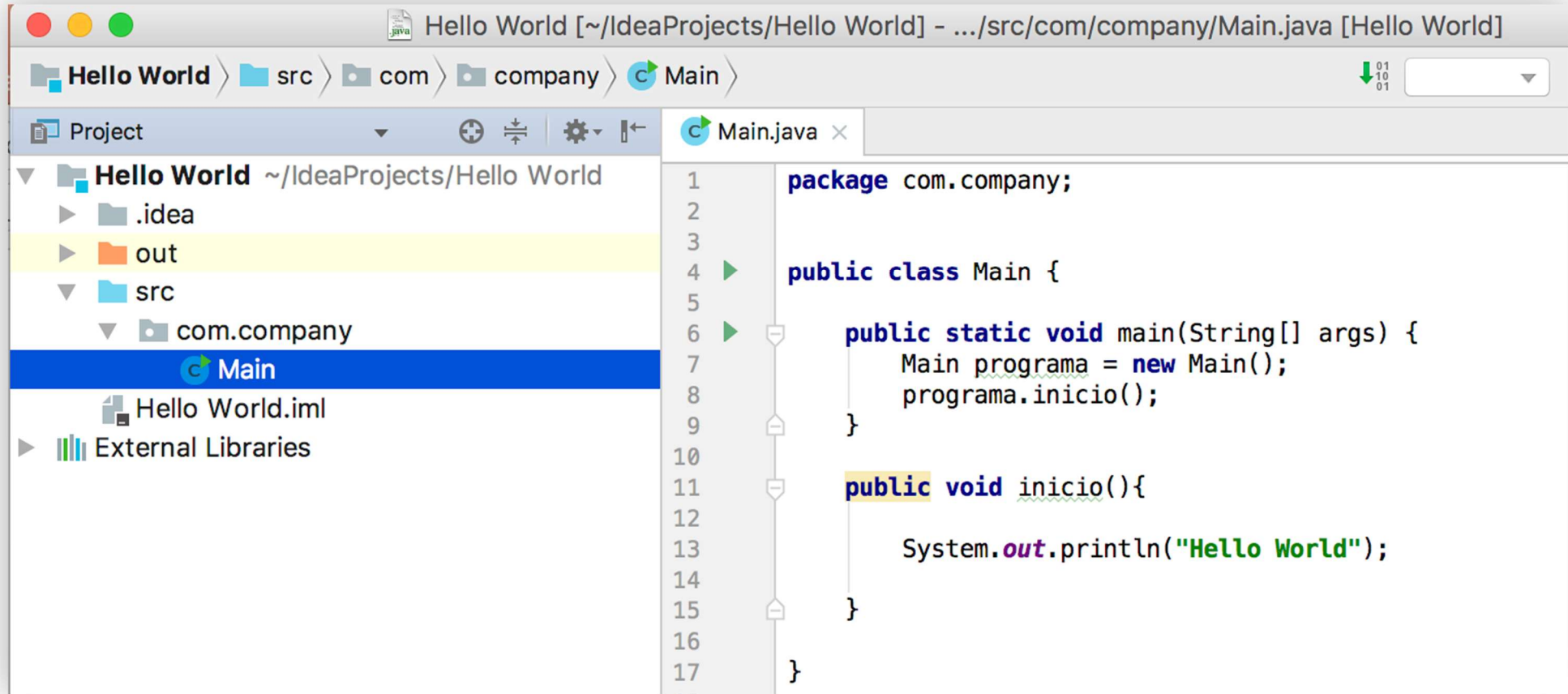
1. Declaring a class

```
public class MyClass {  
  
    // field declarations  
    // method implementations  
  
}
```

MyClass.java

Creating a class in IntelliJ

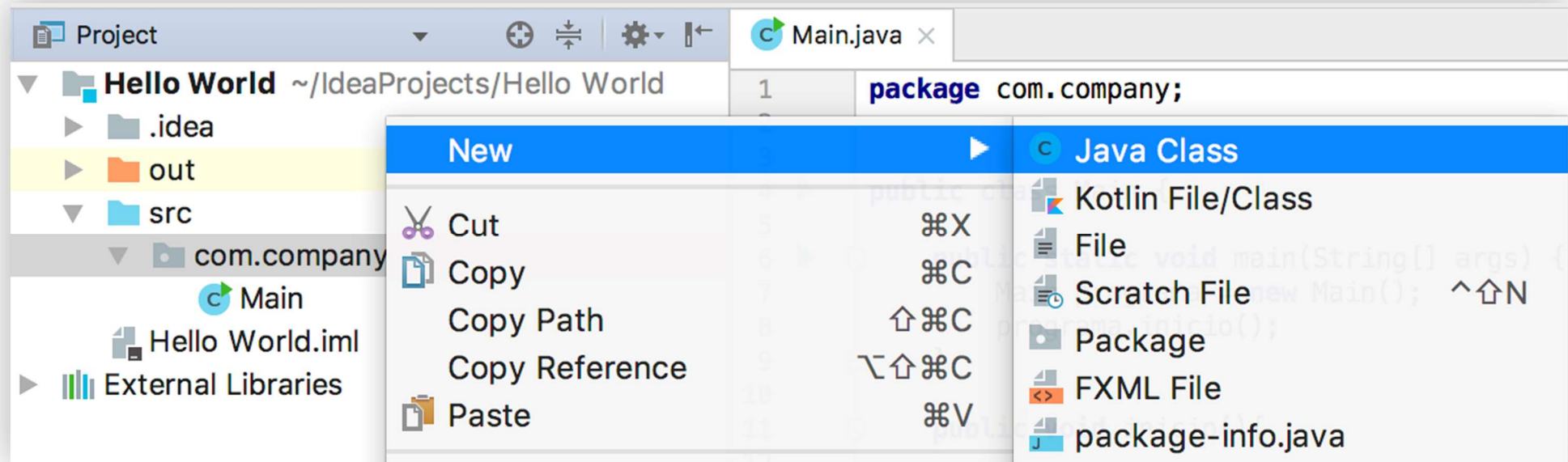
2. Creating a class in IntelliJ



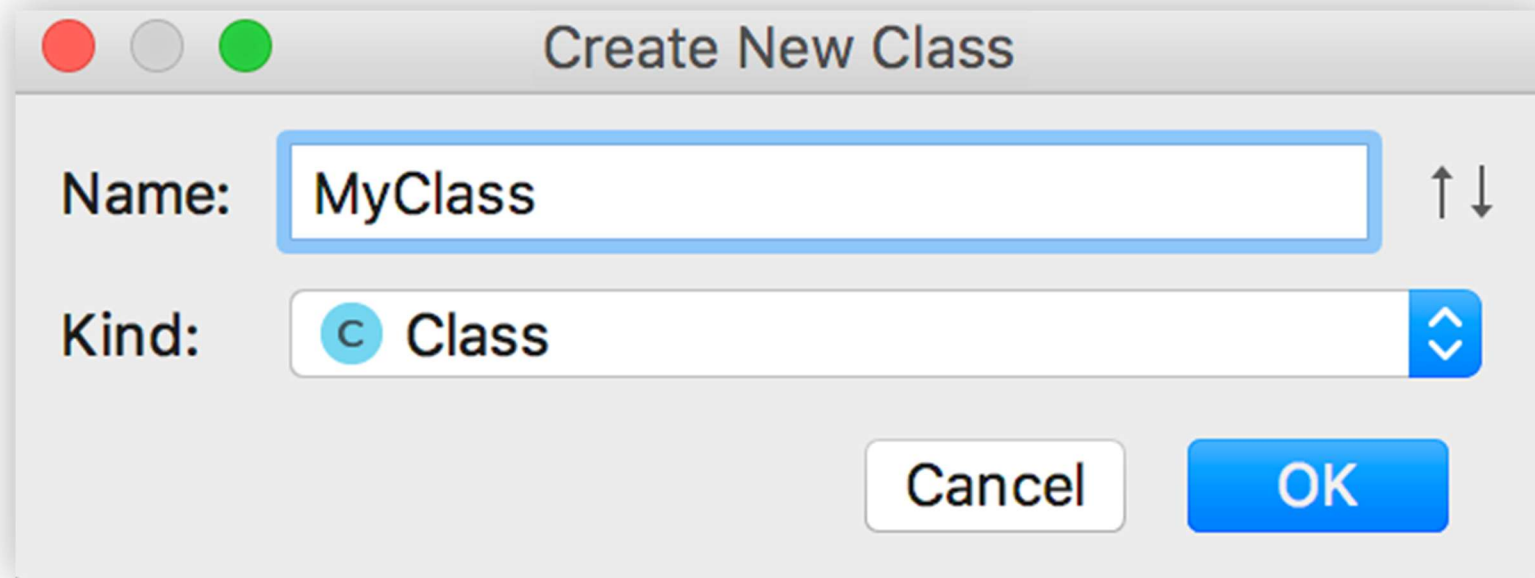
The screenshot shows the IntelliJ IDEA interface. The top toolbar indicates the current file is `.../src/com/company/Main.java` [Hello World]. The breadcrumb navigation shows the path: `Hello World` > `src` > `com` > `company` > `Main`. The left sidebar displays the project structure for `Hello World` at `~/IdeaProjects/Hello World`. The `src` folder is expanded, showing the `com.company` package, which contains the `Main` class. The `Main` class is selected and highlighted in blue. Below the package structure, the `Hello World.iml` file and `External Libraries` are visible. The main editor window shows the code for `Main.java`. The code defines a package `com.company`, a public class `Main`, a public static `main` method that creates a new `Main` instance and calls `inicio`, and a public `inicio` method that prints "Hello World" to the console.

```
1 package com.company;
2
3
4 public class Main {
5
6     public static void main(String[] args) {
7         Main programa = new Main();
8         programa.inicio();
9     }
10
11     public void inicio(){
12
13         System.out.println("Hello World");
14
15     }
16
17 }
```

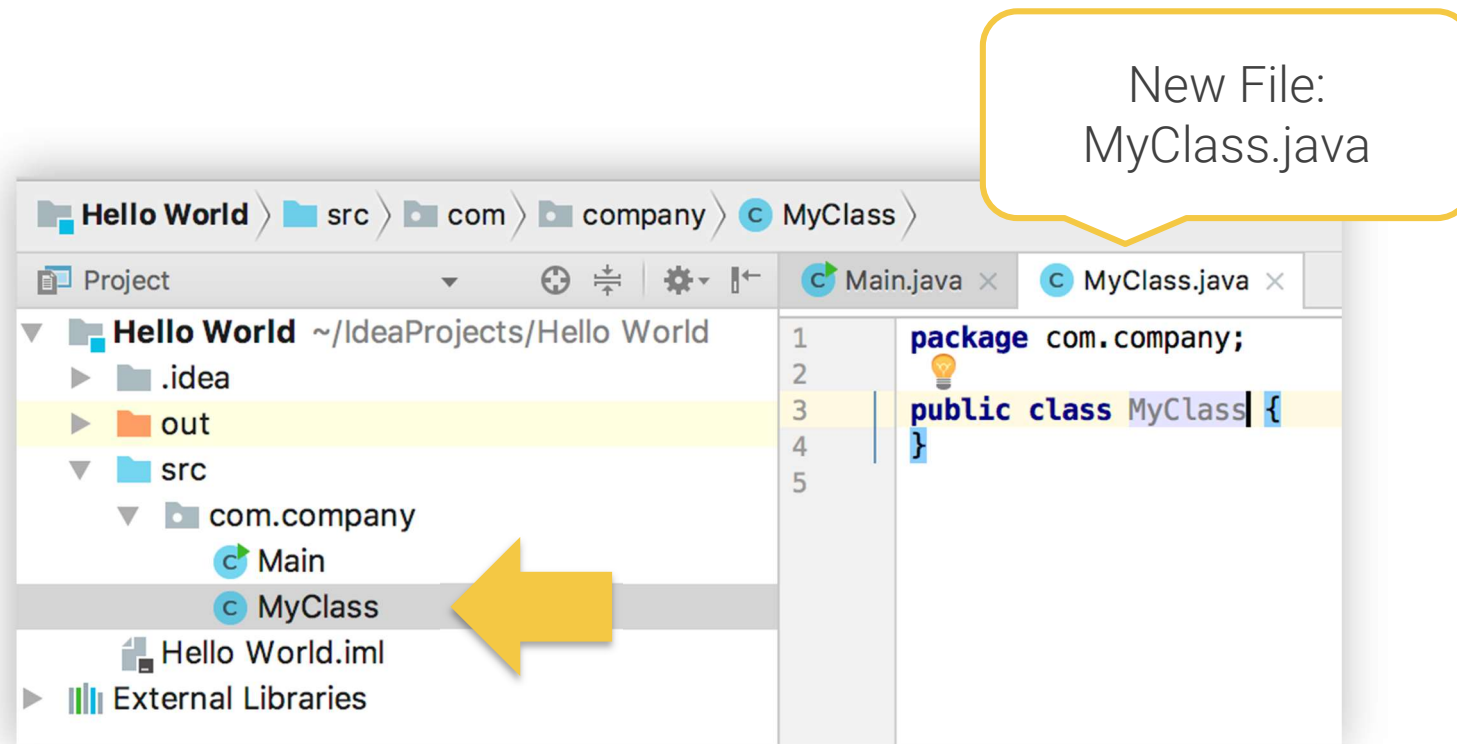
2. Creating a class in IntelliJ



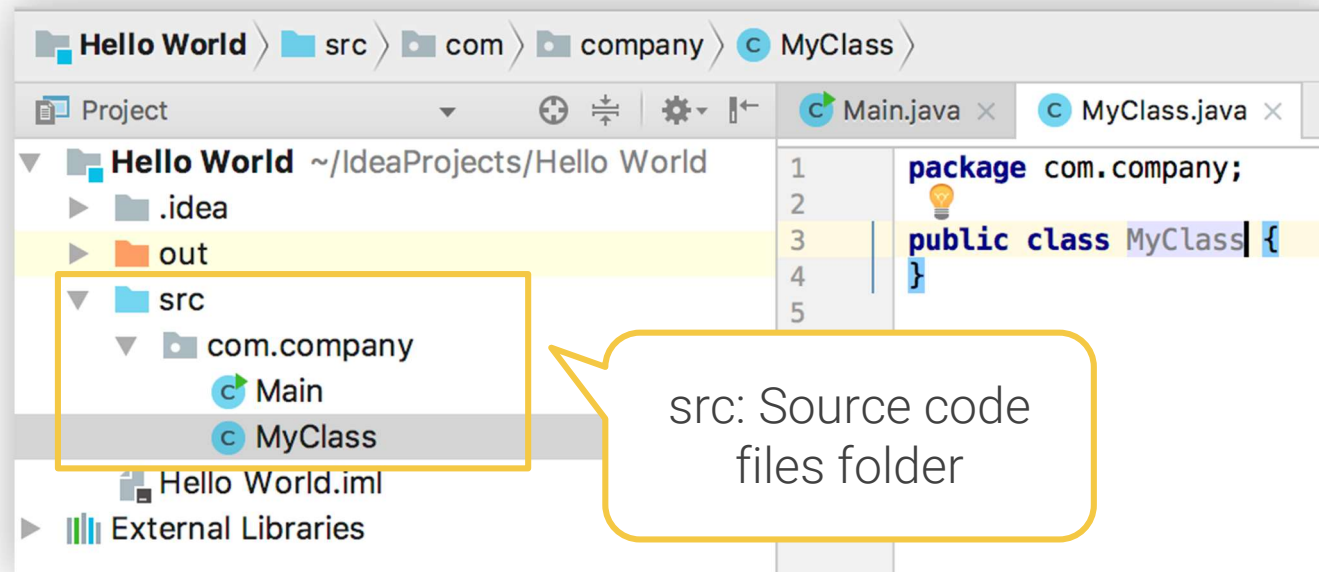
2. Creating a class in IntelliJ



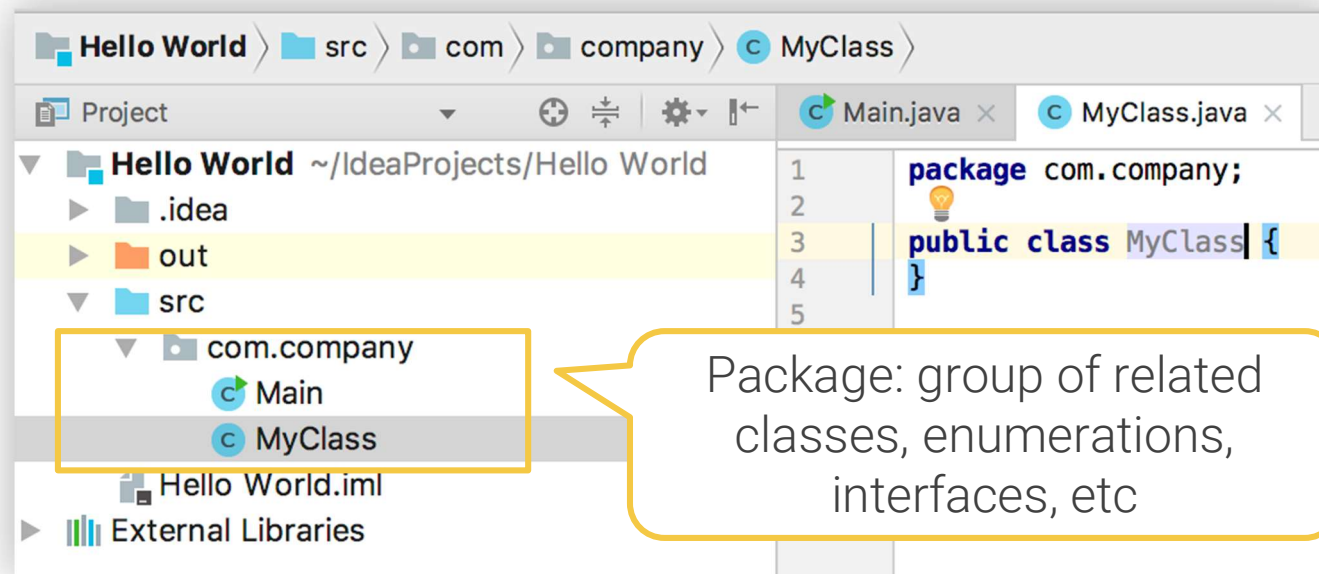
2. Creating a class in IntelliJ



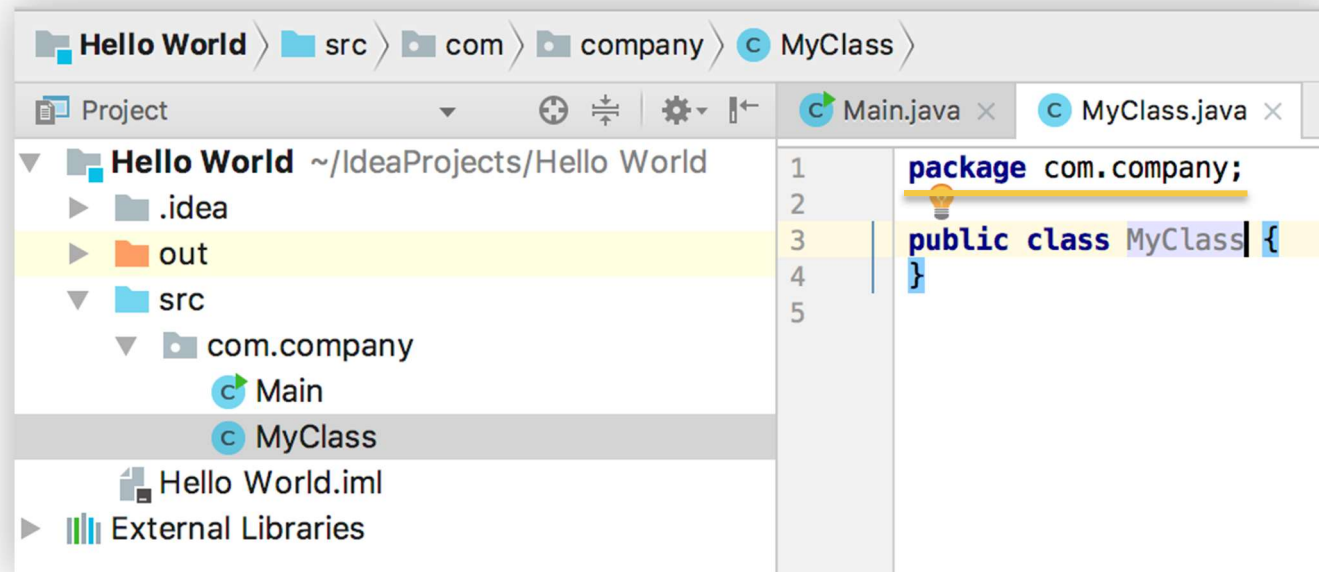
2. Creating a class in IntelliJ



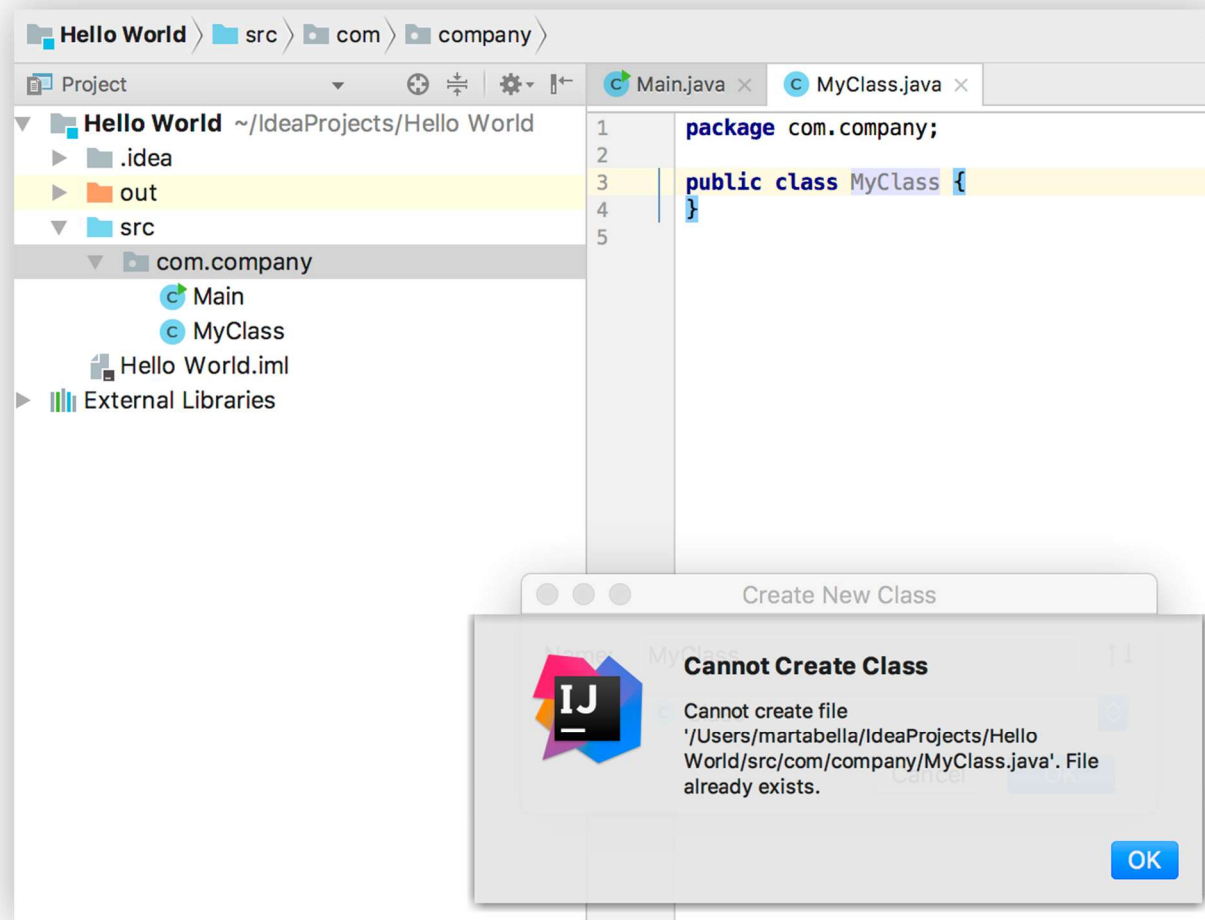
2. Creating a class in IntelliJ



2. Creating a class in IntelliJ



2. Creating a class in IntelliJ



Default constructor

3. Default constructor

```
public class Car{  
  
    String type;  
    String brand;  
    String model;  
    int seats;  
    double price;  
    boolean rented;  
  
}
```



3. Default constructor

```
public class Car{
```

```
    String type;
```

```
    String brand;
```

```
    String model;
```

```
    int seats;
```

```
    double price;
```

```
    boolean rented;
```

```
}
```



```
public class Main {
```

```
    public static void main(String[] args) {
```

```
        Main programa = new Main();
```

```
        programa.inicio();
```

```
    }
```

```
    public void inicio(){
```

```
        Car coche = new Car();
```

```
    }
```

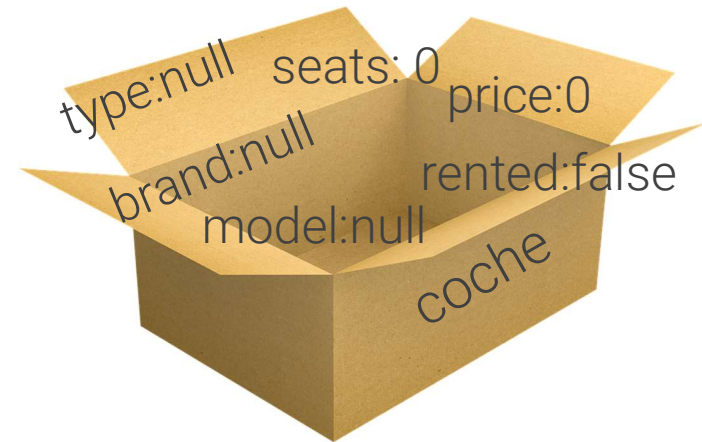
```
}
```

3. Default constructor

```
public class Car{  
  
    String type;  
    String brand;  
    String model;  
    int seats;  
    double price;  
    boolean rented;  
  
}
```



```
Car coche = new Car();
```



3. Default constructor

Data Type	Descripción	Valor por defecto
long	Número entero	0
int		0
short		0
byte		0
double	Número decimal	0
float		0

3. Default constructor

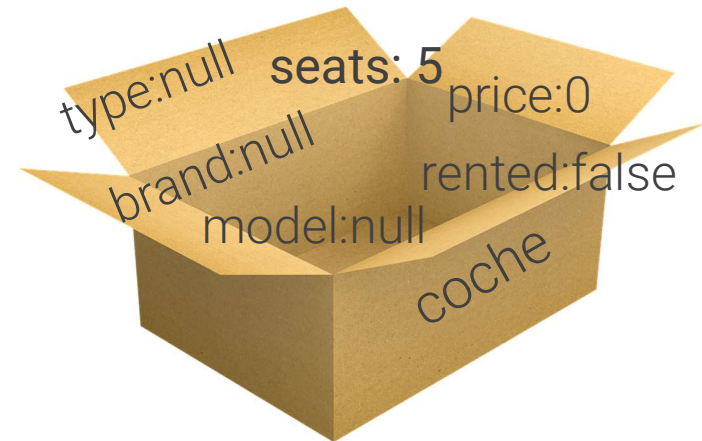
Data Types	Descripción	Valor por defecto
boolean	valor lógico	false
char	carácter unicode	nul
String	cadena de caracteres	null
XXX	Cualquier objeto	null

3. Default constructor

```
public class Car{  
  
    String type;  
    String brand;  
    String model;  
    int seats=5;  
    double price;  
    boolean rented;  
  
}
```



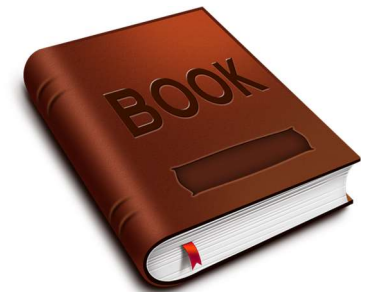
```
Car coche = new Car();
```



Attributes and methods

Declaring Attributes

```
public class Libro{  
    String titulo;  
    String autor;  
    String tema;  
    int numPaginas;  
    int ISBN;  
}
```



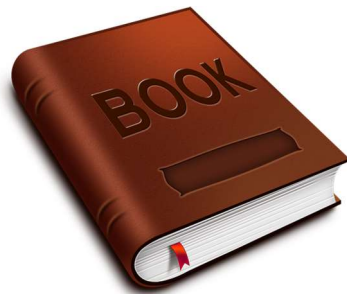
Declaring Attributes

```
public class Biblioteca{  
    Libro[] catalogo;  
    String direccion;  
}
```



Accesing Attributes

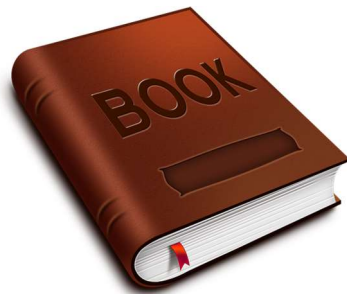
```
public class Libro{  
    String titulo;  
    String autor;  
    String tema;  
    int numPaginas;  
    int ISBN;  
}
```



```
Libro miLibro= new Libro();  
miLibro.numPaginas
```

Accesing Attributes

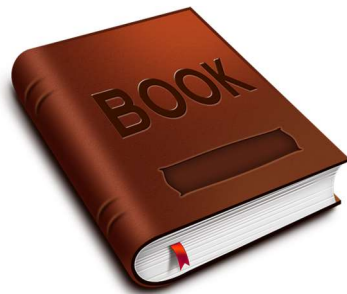
```
public class Libro{  
    String titulo;  
    String autor;  
    String tema;  
    int numPaginas;  
    int ISBN;  
}
```



```
Libro miLibro= new Libro();  
int n = miLibro.numPaginas
```

Accesing Attributes

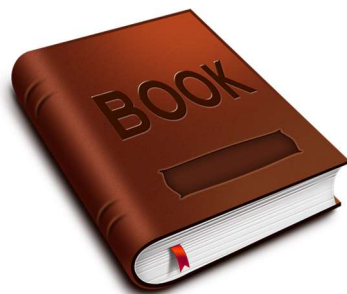
```
public class Libro{  
    String titulo;  
    String autor;  
    String tema;  
    int numPaginas;  
    int ISBN;  
}
```



```
Libro miLibro= new Libro();  
System.out.println(miLibro.numPaginas);
```

Setting Attributes

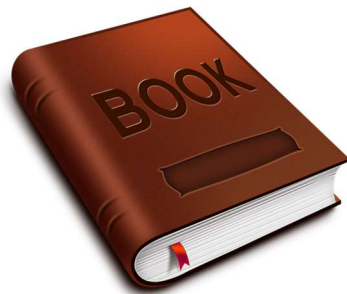
```
public class Libro{  
    String titulo;  
    String autor;  
    String tema;  
    int numPaginas;  
    int ISBN;  
}
```



```
Libro miLibro= new Libro();  
miLibro.numPaginas = 198;
```

Setting Attributes

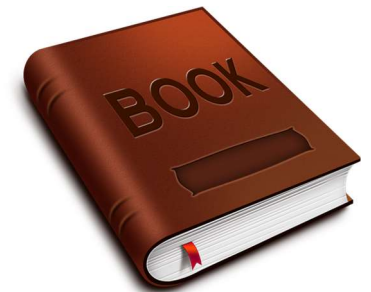
```
public class Libro{  
    String titulo;  
    String autor;  
    String tema;  
    int numPaginas;  
    int ISBN;  
}
```



```
Libro miLibro= new Libro();  
miLibro.numPaginas = "La prisión";
```

Declaring Methods

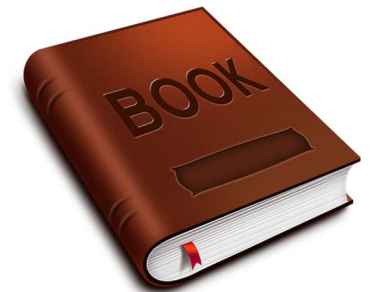
```
public class Libro{  
    String titulo;  
    String autor;  
    String tema;  
    int numPaginas;  
    int ISBN;  
  
    public void setMarca(int pagina){  
        //block of code  
    }  
}
```



Declaring Methods

```
public class Libro{  
    String titulo;  
    String autor;  
    String tema;  
    int numPaginas;  
    int ISBN;  
  
    public void setMarca(int pagina){  
        //block of code  
    }  
}
```

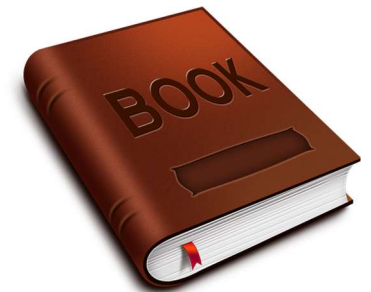
Access modifier



Declaring Methods

```
public class Libro{  
    String titulo;  
    String autor;  
    String tema;  
    int numPaginas;  
    int ISBN;  
  
    public void setMarca(int pagina){  
        //block of code  
    }  
}
```

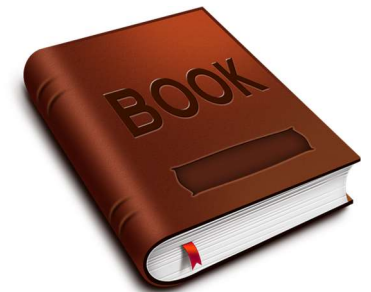
Return type



Declaring Methods

```
public class Libro{  
    String titulo;  
    String autor;  
    String tema;  
    int numPaginas;  
    int ISBN;  
  
    public void setMarca(int pagina){  
        //block of code  
    }  
}
```

Method name

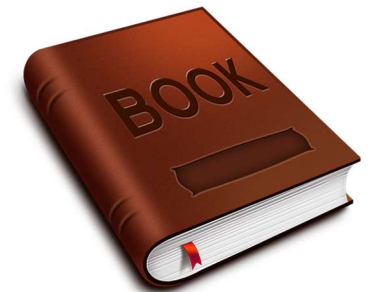


Declaring Methods

```
public class Libro{  
    String titulo;  
    String autor;  
    String tema;  
    int numPaginas;  
    int ISBN;
```

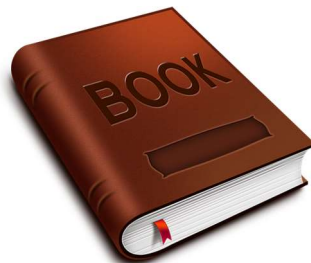
Parameters

```
    public void setMarca(int pagina){  
        //block of code  
    }  
}
```



Calling Methods

```
public class Libro{  
    String titulo;  
    String autor;  
    String tema;  
    int numPaginas;  
    int ISBN;  
  
    public void setMarca(int pagina){  
        //block of code  
    }  
}
```



```
Libro miLibro= new Libro();  
miLibro.setMarca(1);
```

“El secreto para salir adelante es comenzar.”

Mark Twain, escritor y humorista estadounidense

