

# BlueJ

Lets get started.

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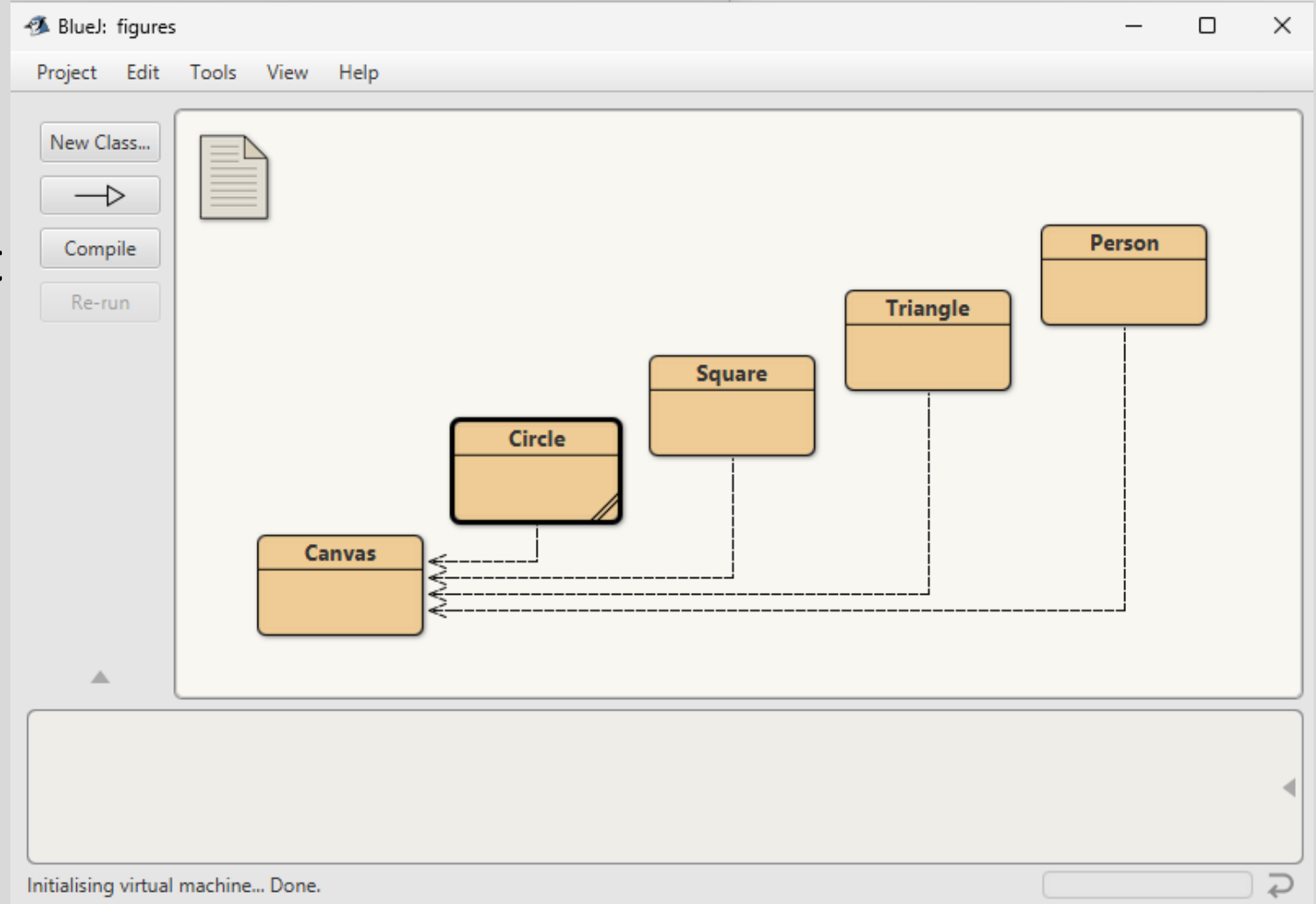


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# What is BlueJ?



BlueJ is a free, beginner-friendly integrated development environment (IDE) for the Java programming language, designed to teach object-oriented programming concepts.



# Why are we using BlueJ?

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- Simple, non-intimidating interface
- Interactive object creation
- Powerful visualisation of class structure and objects
- Makes complex Object-Oriented Programming (OOP) concepts easier for beginners to grasp and experiment with.

# What is Programming?

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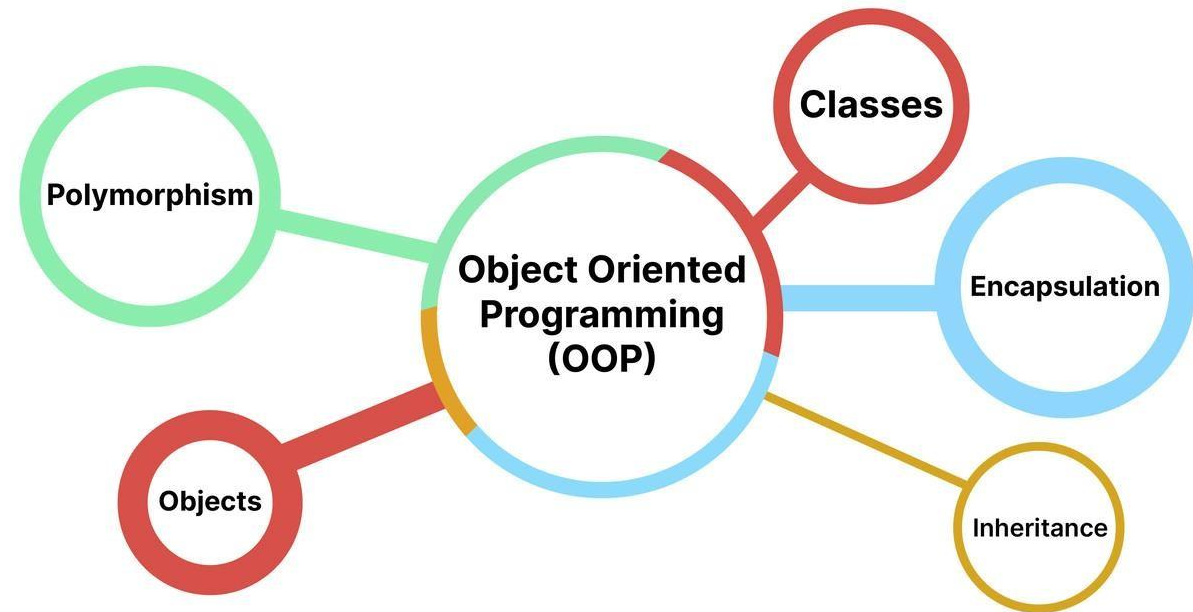
Programming **IS**  
problem solving.



# What is Object Oriented Programming (OOP)?

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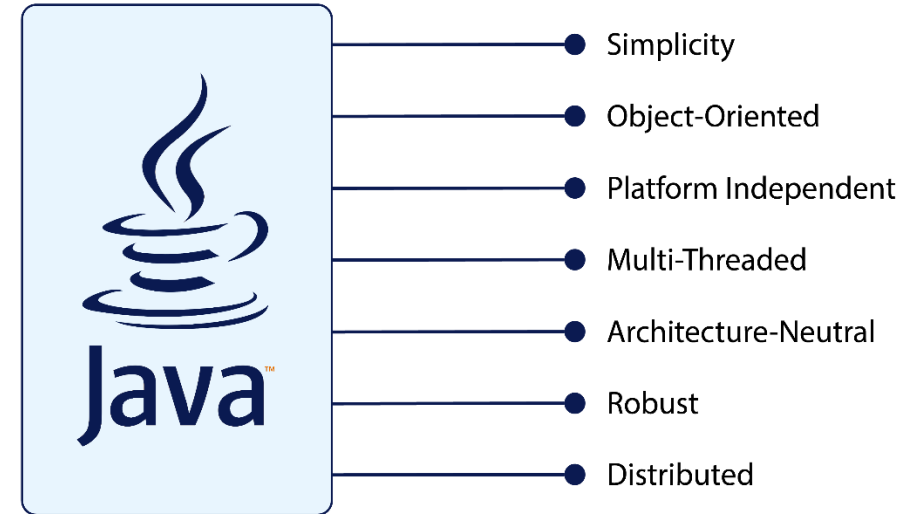
- Object-oriented programming is based on the concept of objects
- In object-oriented programming data structures, or objects are defined, each with its own properties or attributes.
- Each object can also contain its own procedures or methods



# What is Java?

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- Java is a multiplatform, object-oriented programming language that runs on billions of devices worldwide.
- It powers applications, smartphone operating systems, enterprise software, and many well-known programs.
- Despite having been invented over 20 years ago, Java is currently the most popular programming language for app developers.



# Flow of Control in a Program

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- Each program you write will typically have:

<b>Sequence</b>	Things that will be done in a <b>particular order</b>
<b>Selection</b>	Things that will be done <b>conditionally</b>
<b>Iteration</b>	Things that will be done <b>repetitively</b>

# Launch BlueJ

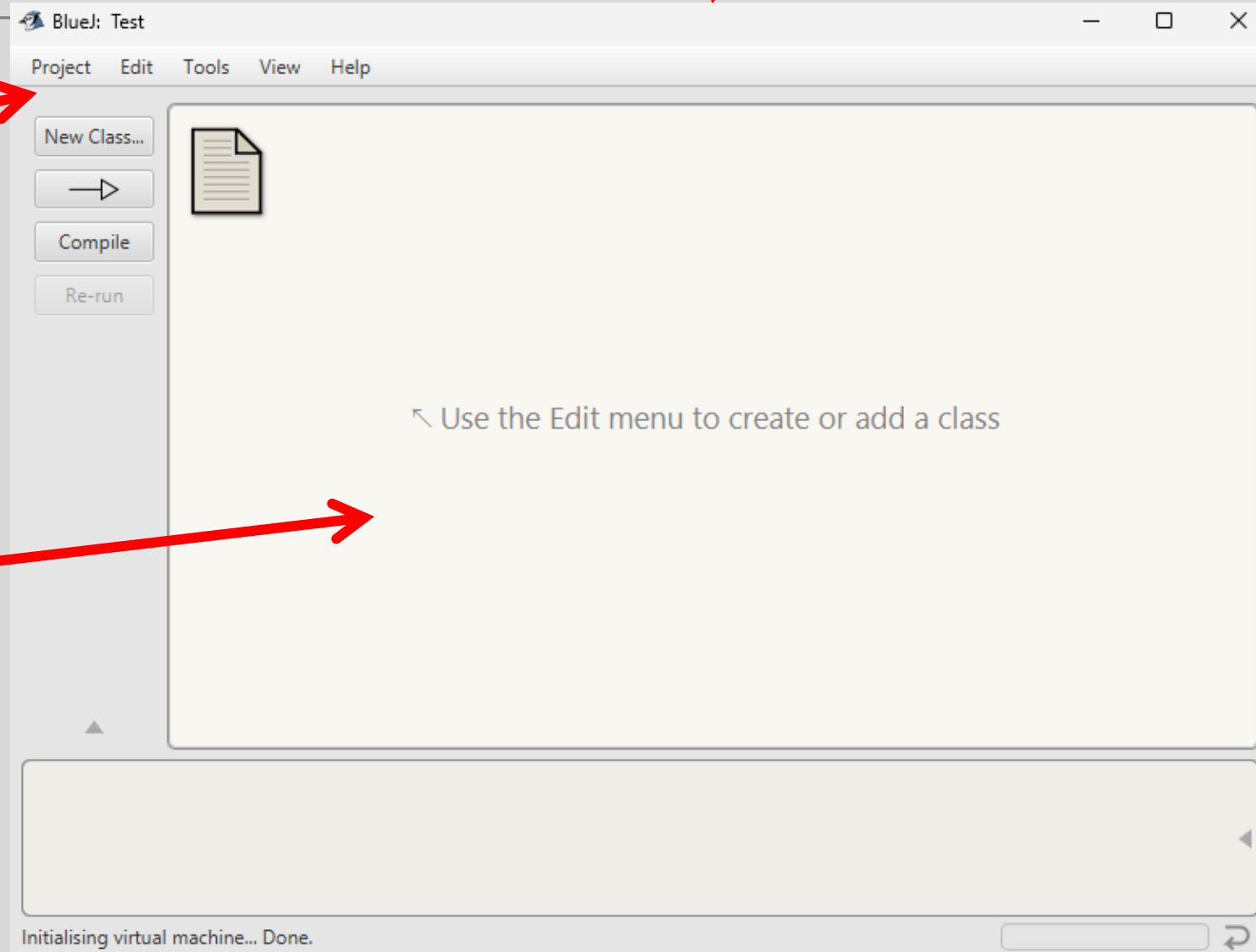
Project Window



Toolbar



Class Diagram  
Area



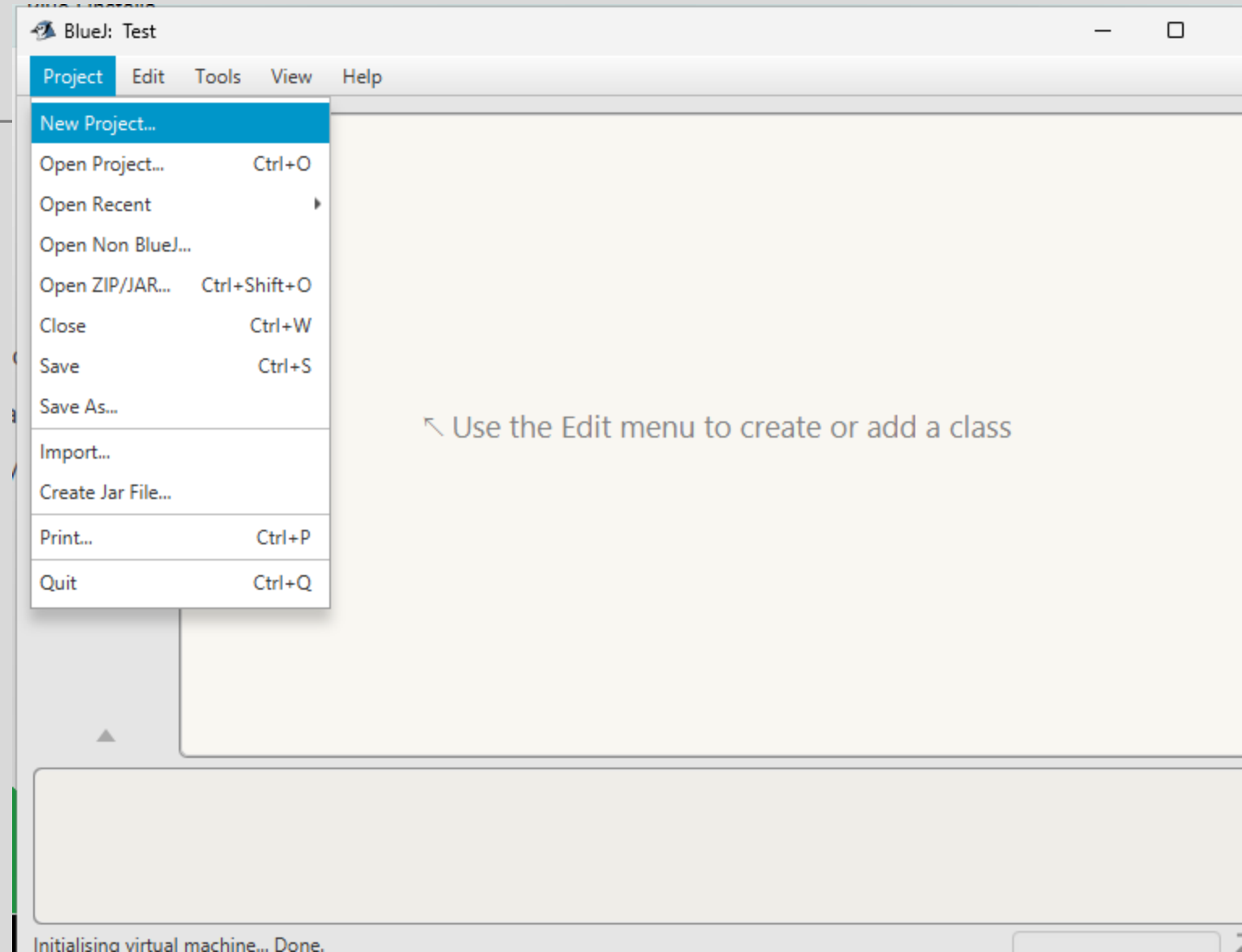


# Hello World

BlueJ

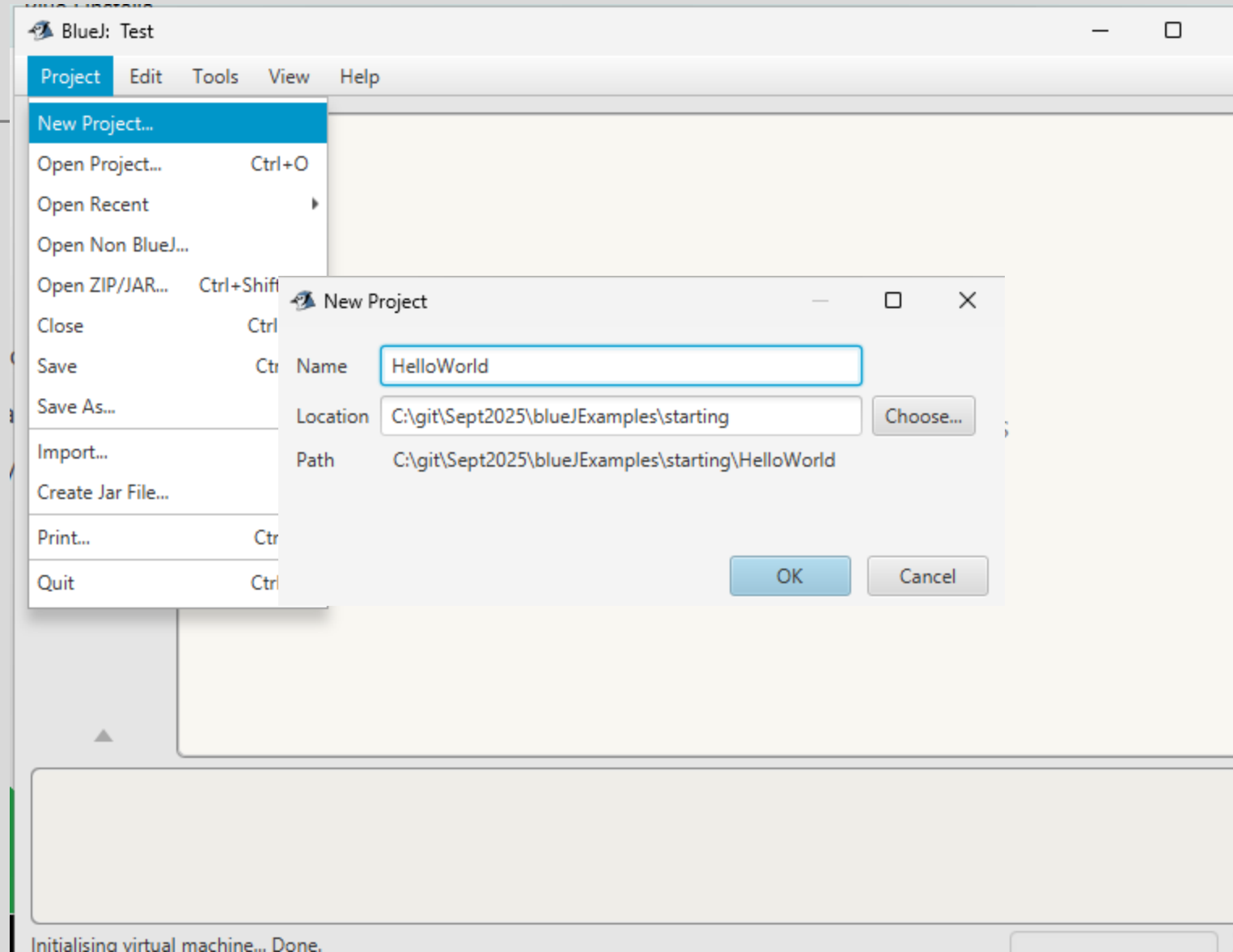
# New Java Project

- Click on Project -> New Project



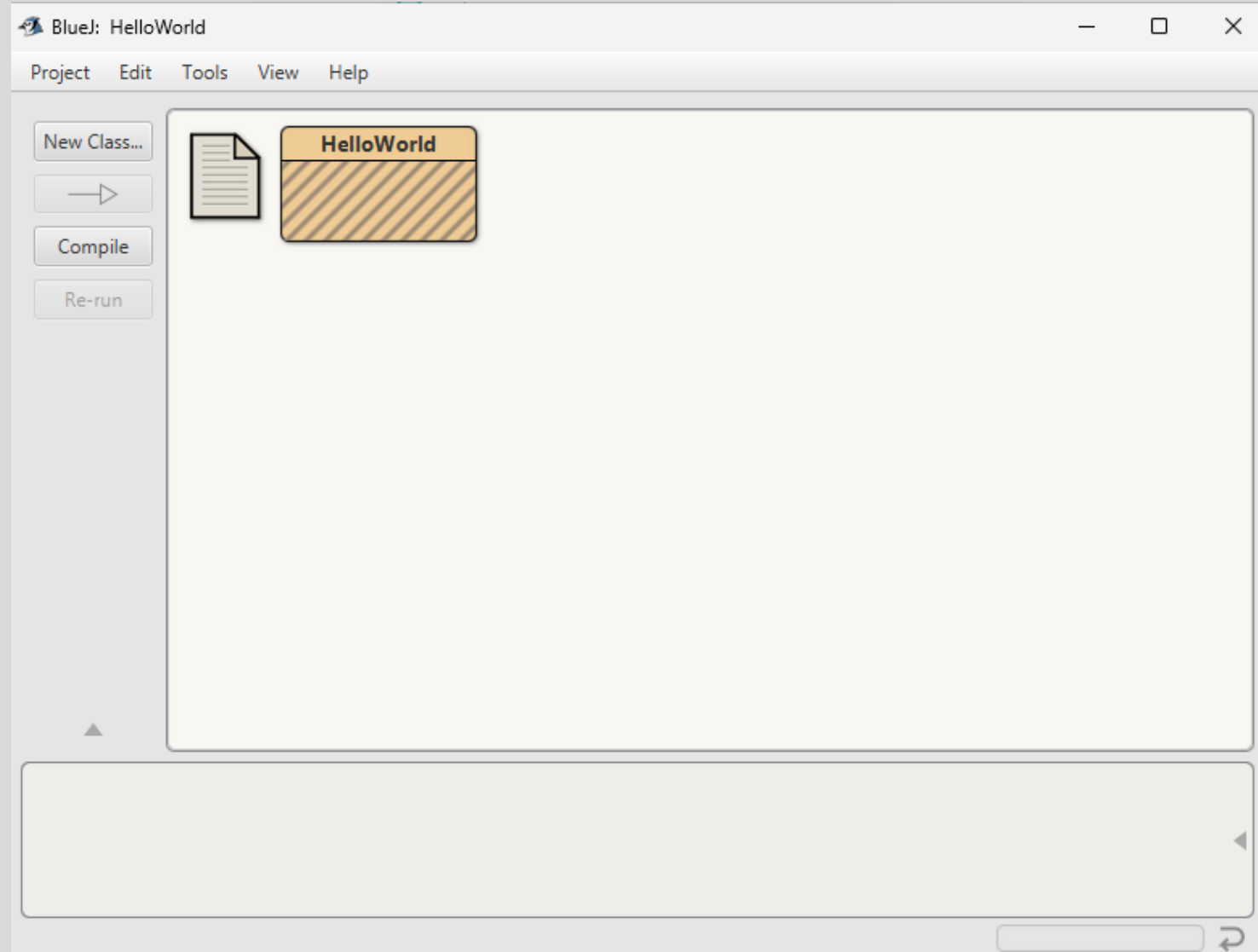
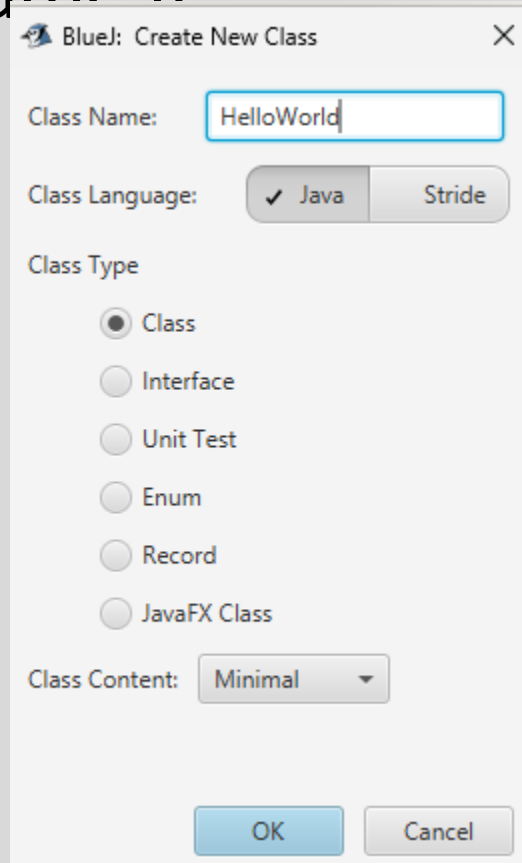
# New Java Project

- Give your project a name and location, press OK



# New Java Project

- Click on New Class, and name it

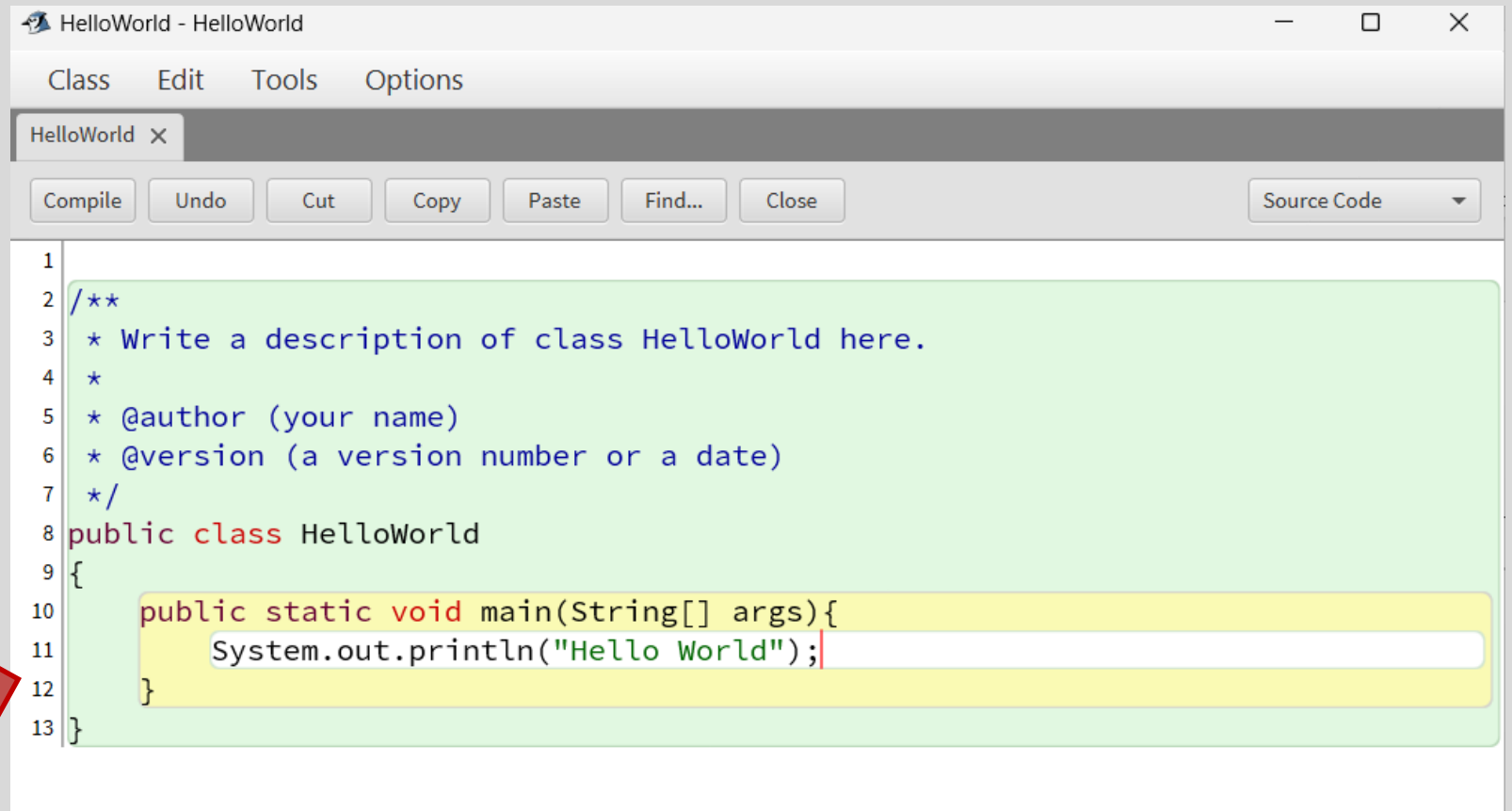


# main method

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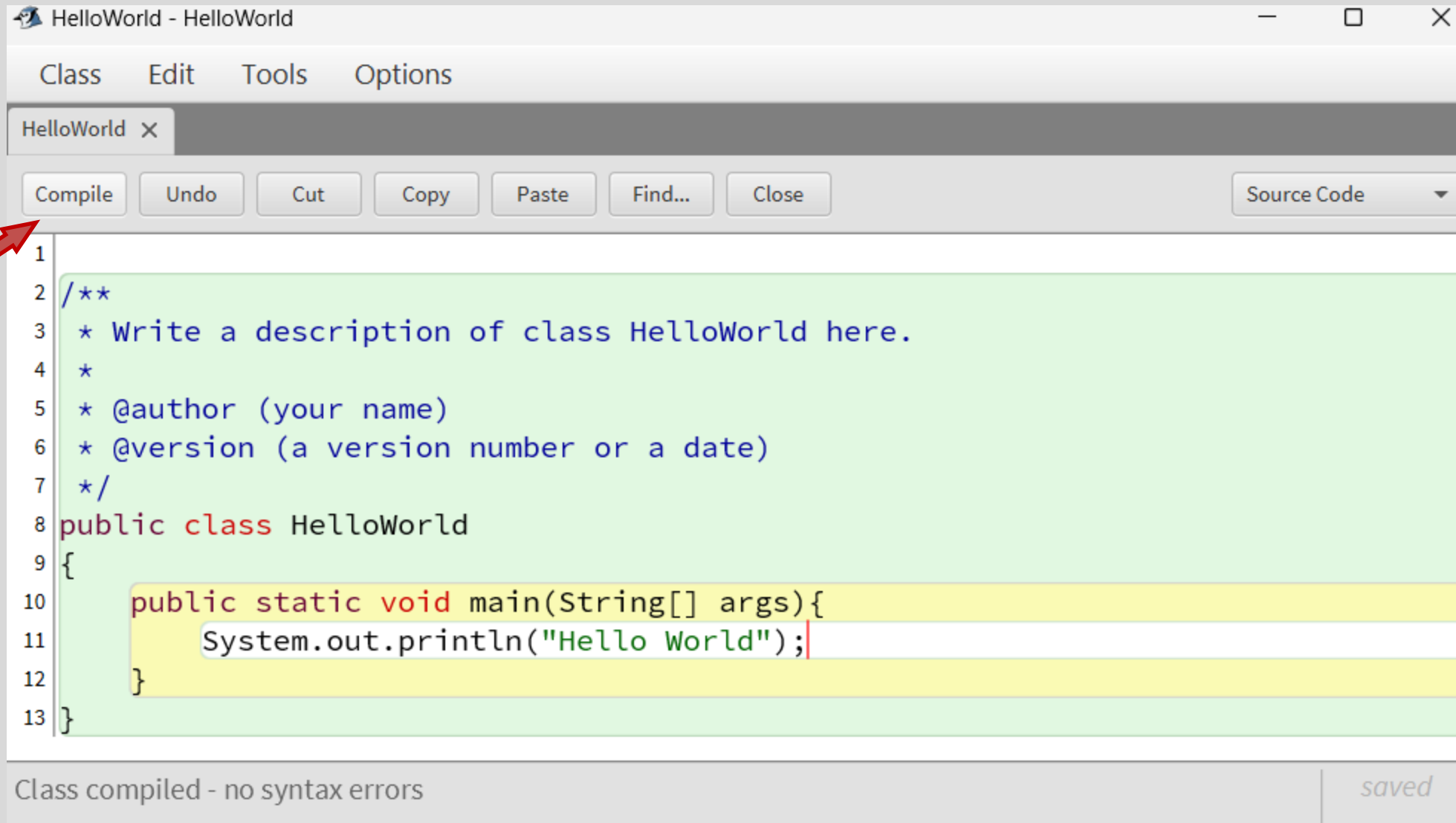
- Double-Click on the HelloWorld class, and add the following code

Main method



```
1
2 /**
3  * Write a description of class HelloWorld here.
4  *
5  * @author (your name)
6  * @version (a version number or a date)
7  */
8 public class HelloWorld
9 {
10     public static void main(String[] args){
11         System.out.println("Hello World");
12     }
13 }
```

# Compile

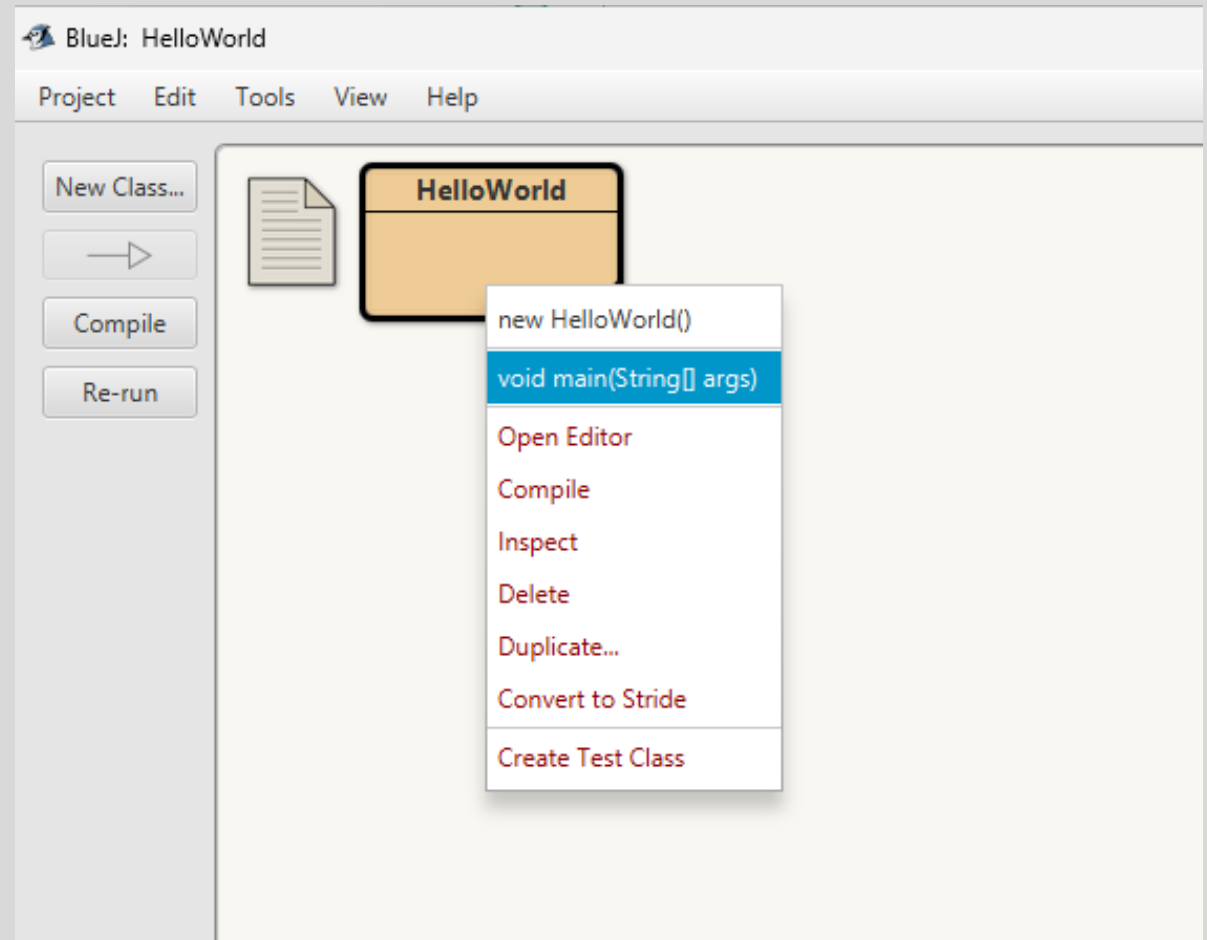


Click Compile

# Run your Code

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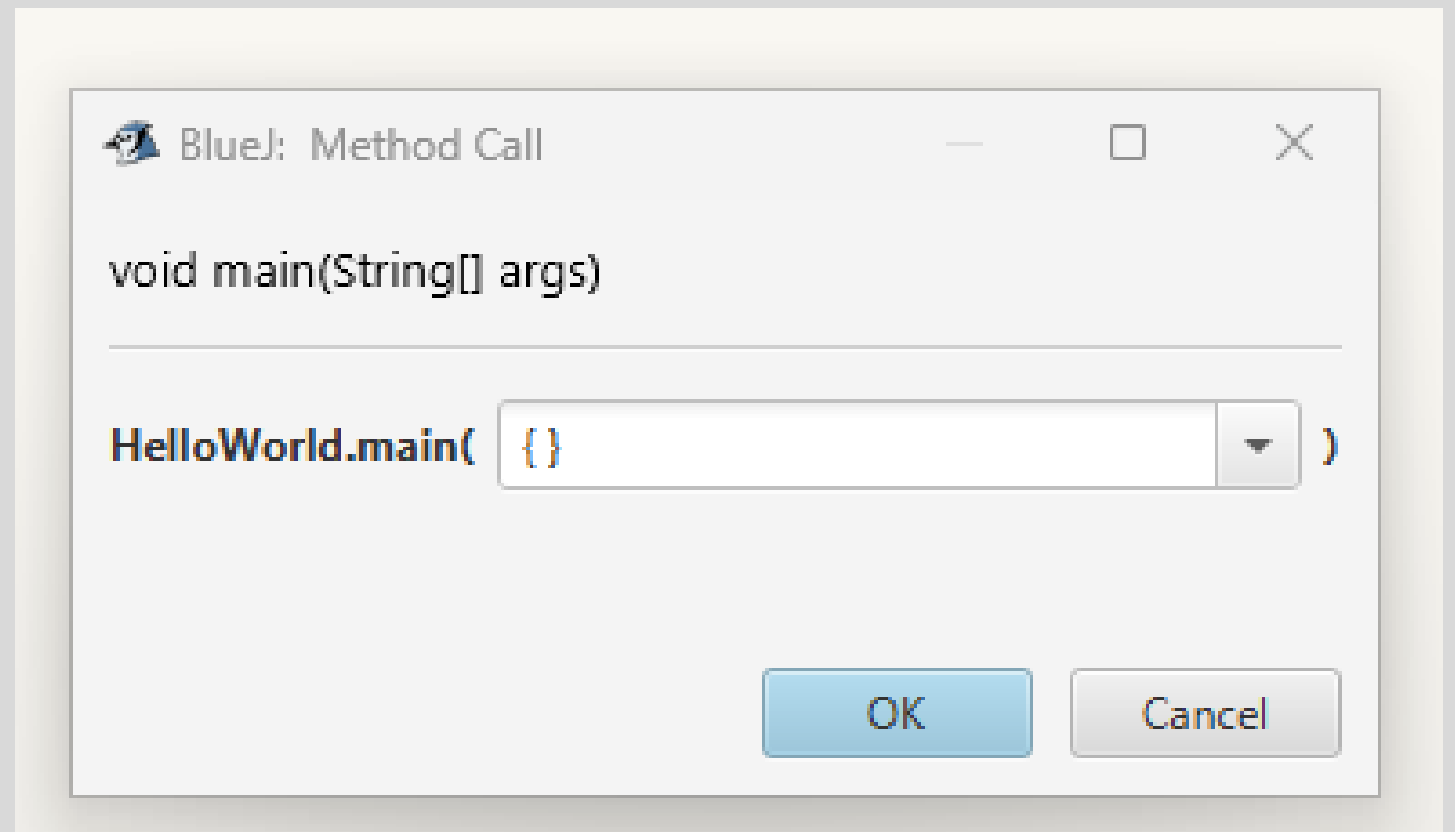
- Right-Click on your class, and choose your main method



# Run your Code

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- Click OK

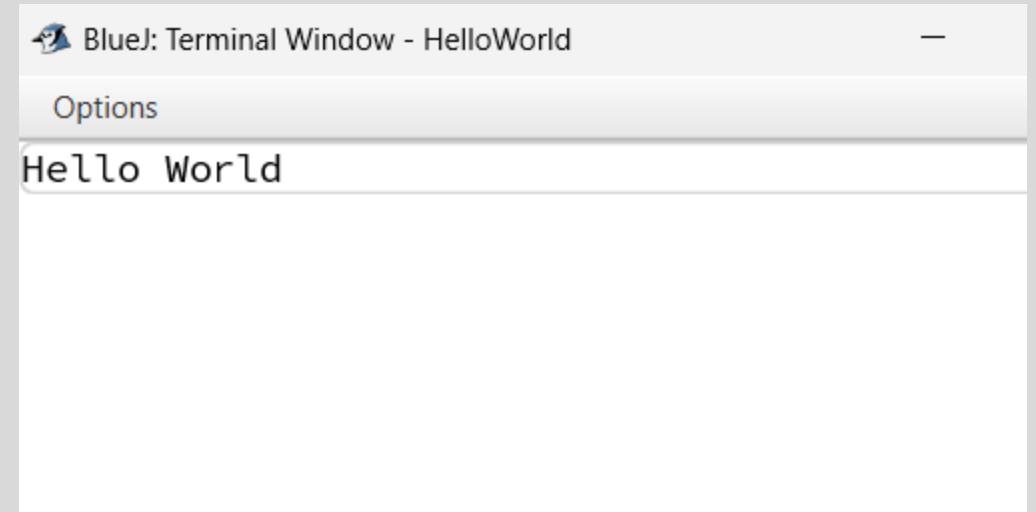




# Output

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- You should see the following in your code window



# Questions?

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