What is the relationship between a Class and an Object?

All java codes are defined in a Class, having variables and methods.

Variables are attributes which define the state of a class.

Methods are the place where business logic is done. Contains set of statements to satisfy the requirement.

An instance of a class is called an object. The object has state and behavior.

Source: [Top 50+ Core Java Interview Questions and Answers (softwaretestinghelp.com)](https://www.softwaretestinghelp.com/core-java-interview-questions/)

What are the differences between checked and unchecked exceptions?

* A checked exception is caught at the compile time whereas a runtime or unchecked exception is at runtime.
* A checked exception must be handled by re—throwing or with a try catch block, whereas unchecked isn’t required to be handled.
* A runtime exception is a programming error and is fatal whereas a checked exception is an exception condition within your code’s logic and can be recovered or re-tried from.

Source: [How to Handle Checked & Unchecked Exceptions in Java | Rollbar](https://rollbar.com/blog/how-to-handle-checked-unchecked-exceptions-in-java/#:~:text=A%20checked%20exception%20must%20be,be%20recovered%20or%20retried%20from.)