

A group of four students are gathered around a table in a library, looking at a laptop screen. The background is filled with bookshelves. A semi-transparent blue diagonal overlay covers the left side of the image, and a semi-transparent red horizontal overlay covers the bottom. The title text is white and positioned on the blue overlay.

Working with Java Data Types

Local Variable Type Inference (LVTI)

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- Java is a strongly-typed language i.e. you must specify the type of a variable when introducing it.
- However, since Java 10, we have the option, in certain scenarios, of using the keyword *var* instead of the type. In these situations, the compiler infers the type e.g. *var x = "abc"; // x is a String*
- Remember that the variables must be **local** and must be initialised on the line where they are declared.



Local Variable Type Inference (LVTI)

```
package lets_get_certified.working_with_java_data_types;

public class LocalVariableTypeInference {
    // not here...

    public static void main(String[] args) {
        // here is ok but remember to initialise them
        var x = 2;           // int
        var y = 3.2;         // double
        var t = "abc";       // String
    }
}
```