Java notes and points

Java Variables

Variables are containers for storing data values.

In Java, there are different **types** of variables, for example:

* String - stores text, such as "Hello". String values are surrounded by double quotes
* int - stores integers (whole numbers), without decimals, such as 123 or -123
* float - stores floating point numbers, with decimals, such as 19.99 or -19.99
* char - stores single characters, such as 'a' or 'B'. Char values are surrounded by single quotes
* boolean - stores values with two states: true or false

Declaring (Creating) Variables

To create a variable in Java, you need to:

* Choose a **type** (like int or String)
* Give the variable a **name** (like x, age, or name)
* Optionally assign it a **value** using =

Numbers

* Primitive number types are divided into two groups:
* **Integer types** stores whole numbers, positive or negative (such as 123 or -456), without decimals. Valid types are byte, short, int and long. Which type you should use, depends on the numeric value.
* **Floating point types** represents numbers with a fractional part, containing one or more decimals. There are two types: float and double.