Application
Modeling & Design
Course

Lab 4

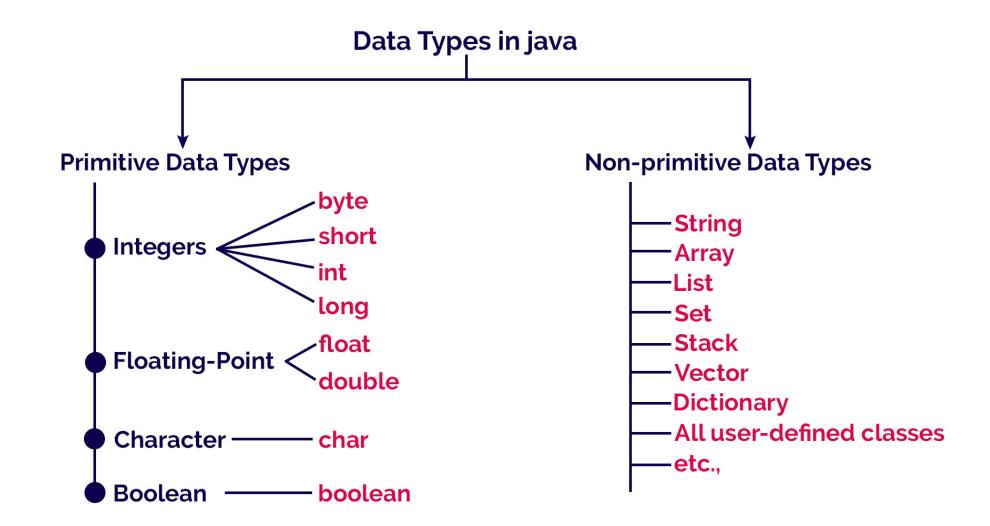
Fall 2022



### Topics

- Primitive Type vs Reference Types
- Using a Debugger
- Using ArrayLists





https://docs.oracle.com/javase/tutorial/java/nutsandbolts/datatypes.html

#### Primitive Vs Non-primitive Data Types

Primitive Data Type	Non-primitive Data Type
These are built-in data types	These are created by the users
Does not support additional methods	Support additional methods
Always has a value	It can be null
	it can be nate
Starts with lower-case letter	Starts with upper-case letter

# What is a Debugger

### 



IF YOU DON'T WRITE BUGS

makeameme.org

## Collection - ArrayList

#### ArrayList - Insertion

```
// Create an arraylist
ArrayList arraylist = new ArrayList();

// Adding elements
arraylist.add("Rose");
arraylist.add("Lilly");
arraylist.add("Jasmine");
arraylist.add("Rose");

//removes element at index 2
arraylist.remove(2);
```

Any questions?

