Learn Kotlin with Team MAST

This course will range over 5 Video Lectures / Hands on Classes. All the video lectures will be available to utilize in future on YouTube channel: **Team MAST**

Course Contents
1. **Data Types in Kotlin**
2. **Control Flow Statements**
3. **Kotlin Functions**
4. **Kotlin OOPs Part (i)**
5. **Kotlin OOPs Part (ii)**
6. **BONUS: Cheat Sheet - Primitive Data Type Sizes in Kotlin**

Video 1: Data Types in Kotlin

1. Hello World Program
2. Kotlin Variables
3. Type inference
4. String interpolation
5. Kotlin String
6. Kotlin Array
7. Kotlin Ranges

Video 2: Control Flow Statements

1. Kotlin if else
2. Kotlin when expression
3. Kotlin loops (for, while, do while)
4. Kotlin continue
5. Kotlin break

Video 3: Kotlin Functions

1. Kotlin functions
2. Kotlin inline functions
3. Lambda Functions
4. Higher order functions

Video 4: Kotlin OOPs Part (i)

1. Kotlin Class and objects
2. Kotlin constructors
3. Kotlin data class
4. Kotlin visibility Modifiers

Video 5: Kotlin OOPs Part (ii)
1. Kotlin interfaces
2. Kotlin abstract classes
3. Kotlin Sealed Class

BONUS: Cheat Sheet - Primitive Data Type Sizes in Kotlin

Integer types

Integer types in Kotlin have a *limited size*, as opposed to the arbitrarily large integers in Python. The limit depends on the type, which decides how many bits the number occupies in memory:

Type	Bits	Min value	Max value
Long	64	-9223372036854775808	9223372036854775807
Int	32	-2147483648	2147483647
Short	16	-32768	32767
Byte	8	-128	127

Floating-point and other types

Type	Bits	Notes
Double	64	16-17 significant digits (same as float in Python)
Float	32	6-7 significant digits
Char	16	UTF-16 code unit (see the section on strings - in most cases, this is one Unicode character, but it might be just one half of a Unicode character)
Boolean	8	true or false

Reference – kotlinlang.org