

Prerequisite for “Android based Mobile App development with JAVA”.

#1 Java Object oriented concepts

OOP is an integral part of Java language. It includes Abstraction, Encapsulation, Polymorphism, and Inheritance.

Read:

<http://www.bigknol.com/2016/01/head-first-to-java-core-programming.html>

#2 Java Basics [Tokens]

Refer all Keywords of Java; static , final , try, catch, are very important.

Primitive types: Integers, Floating point, Boolean.

Read:<http://www.bigknol.com/2016/01/java-tutorial-class-fundamentals-object-example.html>

Read :

<http://www.bigknol.com/2016/01/Getting-Started-with-Java-Program.html>

#3 Type casting and Visibility

Casting compatible and incompatible Types.

Access modifiers : Public, Private, and Protected.

#4 Arrays and Operators

One Dimensional Array

Multidimensional Array

Arithmetic operators

Relational Operators

Assignment Operators

#5 Control Statements

Java Selection Statements : If, If-else, switch
Iteration Statements : While, do-while, for

#6 Class Fundamentals

Creating Class , accessing class methods, and Declaring objects
Constructors, and Garbage collection
Java Methods
Understanding static , methods

#7 Inheritance, Interface and package

Inheriting Class
Use of super
Creating Interface
Abstract Class
Creating packages in Java

#8 Multithreading and Exception Handling

Creating Java Threads
Manage threads in Java
Try.. catch
Creating multiple threads

#9 Java Annotations and IO

@Inherited
@Override
@Deprecated
@SuppressWarnings
Reading writing Files
Streams

#10 Generics and Collection Classes

Generic Classes

Generic Interfaces

The ArrayList Class

The HashSet Class

What to install for android app development (link below)

<https://www.androidauthority.com/android-app-development-complete-beginners-658469/>