

Welcome to ineuron.ai



## Java Bootcamp

### **Description:**

This course has been designed to help you become a complete and professional Java engineer at the conclusion of the course, rather than only teaching essential Java skills. To guarantee that you grasp the Java language, the course has been designed to be very thorough, covering the majority of Java language features and explaining them in great detail. Tons of best practises and design ideas are described and illustrated in code to guarantee you are industry-ready and can create well-designed, professional code.

### **Start Date:**

### **Doubt Clear Time:**

### **Course Time:**

### **Features:**

# Course material

- # Course resources
- # On demand recorded videos
- # Practical exercises
- # Quizzes
- # Assignments
- # Course completion certificate

### **What we learn:**

- # Java data types and variables
- # Java operations and conditionals
- # Arrays
- # Object-Oriented java
- # Searching and Sorting
- # Linked Lists
- # Various java projects

### **Requirements:**

- # System with minimum i3 processor or better
- # At least 4 GB of RAM
- # Working internet connection
- # Dedication to learn

### **Instructor:**

#### **Name:**

Hitesh Choudhary

#### **Description:**

I like to make videos related to code and tech in my free time. I

also lead a few tech teams in startups, help in hiring talent for companies. I am also on a part time traveller, with 31 countries checked off so far!

## **>Before we get started with java:**

>>Important instructions before getting started

>>Installing Java on Windows and setting path

>>Installing IntelliJ on WINDOWS

>>Installing IntelliJ on MAC

>>Hello World in Java

>>Explore your IDE

## **>Basics of java:**

>>What are variables in java

>>Add two numbers by taking input from users

>>Comments and TODOs are important

>>Primitive Datatypes in Java

>>Int Float and double

>>Unicode values and Booleans

>>Strings in JAVA

## **>Operations and conditionals in java:**

>>Arithmetic Operations and pre postfix in Java

- >>Relational Operations in Java
- >>Logical Operations in Java
- >>Assignment operations and reading materials
- >>Decision making with If and Else
- >>Switch case and break in Java
- >>While loop in Java
- >>Do while loop in Java
- >>For loop in Java

### **>University question specials- Practice java:**

- >>Comparing two numbers
- >>Finding Odd and Even numbers
- >>Leap Year or not
- >>Largest of 3 numbers
- >>Fahrenheit to Celsius
- >>Factorial of a number
- >>Printing Star and number patterns
- >>Generating random numbers between 1 and hundred
- >>Students grade greeting systems

### **>Array and a small project of TODO list:**

- >>Array - introduction and loop exercise

>>Fun exercise with Java

>>Access Modifiers in Java

>>Methods in Java

>>ArrayList in Java

>>Todo list project part 1

>>Todo list with Arraylist part 2

>>Todo list part 3

>>Todo list in java FINAL

## **>Object Oriented Programming**

### **Concepts:**

>>Modern datatypes, Autoboxing and unboxing

>>Classes and constructor in Java

>>Objects in java

>>basics of inheritance

>>Method override and type of inheritance in Java

>>Encapsulation - getters and setters

>>Abstraction and its usage in Java

>>Polymorphism in Java

## **>Basics of sorting Algorithms**

### **and their code in java:**

>>Bubble sort algo and code in Java

>>Selection sort code in Java

- >>insertion sort in java
- >>Process API updates and jShell in Java 9
- >>Try catch and exception in Java
- >>Malformed URL exception
- >>Finding day of any date

## **>Generics, Advance Collection and Linked List:**

- >>Generics introduction and forIn loop in java
- >>Generic methods and Comparable class
- >>Generic classes and objects
- >>New object initialization is tricky sometimes
- >>Linked list part 1
- >>Linked List part 2
- >>You are ready to move into Android now

## **>Getting started with GUI - fxml:**

- >>Getting started with GUI Applications
- >>Your first fxml file
- >>Layouts and buttons for GUI
- >>Connecting code and buttons
- >>Getting input from users
- >>Connecting Multiple buttons
- >>Fixing your scene builder issues

## **>Video Player Project #2:**

>>Getting basics of Video player

>>Adding sliders for time and volume

>>Making Volume and seekbar to work

**>Improve your desktop design**

**skills with scene builder:**

>>Learn to design your desktop App