* Introduction to android studio.
* Android Studio is the official Integrated Development Environment (IDE) for Android app development, developed by Google.
* Primary programming languages used in Android Studio. Ex. Java, Kotlin, and C++.
* It has a drag-and-drop tool to help you design how your app looks.
* You can test your app on a virtual phone (emulator) without needing a real phone.
* It helps you write code faster by suggesting and correcting code.
* You can make quick changes to your app without restarting it every time.
* It helps build (compile) your app and manage files automatically.
* You can save and track changes to your code using tools like Git.
* You can easily connect your app to Firebase for features like login, database, and more.
* Dart programming overview.
* Free, open-source programming language that Google developed for building apps on multiple platforms.
* It was launched by Google in October 2011 as a competitor to JavaScript.
* Dart language is familier to Java Script, If you have worked on JavaScript, then it will help you further to grasp the concepts of Dart quickly.
* Dart is an object-oriented language with C-style syntax which can optionally trans compile into JavaScript.
* It supports interfaces, classes, abstraction, etc..
* You may test your code online by using the online editor DartPad <https://dartpad.dartlang.org/>.
* You may also code in different text editors like Windows Notepad, Notepad++, Emacs, vim or vi, etc.
* Editors may vary from one Operating System to another.
* The source files are typically named with the extension **.dart**.
* The **dart sdk** can be downloaded from <https://www.dartlang.org/install/archive>.
* You can also different IDES Like VSCode, Android Studio, Eclipse, IntelliJ, etc..
* Steps to create first dart program in android studio.
* Open Android Studio
* Go to **File** > Settings
* Select **Plugins** > Search for Dart
* Click Install and then restart Android Studio
* Click on **New Project**
* Choose Dart from the list
* Click Next
* Give your project a name (e.g., **first\_dart\_app**)
* Choose a location to save the project
* Select the Dart SDK path (you can download it from https://dart.dev/get-dart if not installed)
* Click Finish
* Open the **main.dart** file (usually located in the **bin** folder)
* Now, you can write code.