

Unit-2: Installing Android Studio

2

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2.0 Learning Objectives

After studying this unit student should be able to:

- Know about android studio
- List system requirements for android studio
- How to download and install android studio
- List the steps for downloading and installing android studio
- Launch the android studio

2.1 Introduction

For developing application for android platform, you will require Integrated Development Environment (IDE). Android Studio is the official IDE for Android application development. Android Studio provides everything you need to start developing apps for Android, including the Android Studio IDE and the Android SDK tools. First we discuss what the system requirements for android studio are and how to install and configure android studio.

2.2 System Requirements for Android Studio

Windows

- Microsoft® Windows® 8/7/Vista/2003 (32 or 64-bit)
- GB RAM minimum, 4 GB RAM recommended
- 400 MB hard disk space
- At least 1 GB for Android SDK, emulator system images, and caches
- 1280 x 800 minimum screen resolution
- Java Development Kit (JDK) 7
- Optional for accelerated emulator: Intel® processor with support for Intel® VT-x, Intel® EM64T (Intel® 64), and Execute Disable (XD) Bit functionality

2.3 Downloading Android Studio

Download android studio from <http://developer.android.com/sdk/index.html>. It will open following web page.

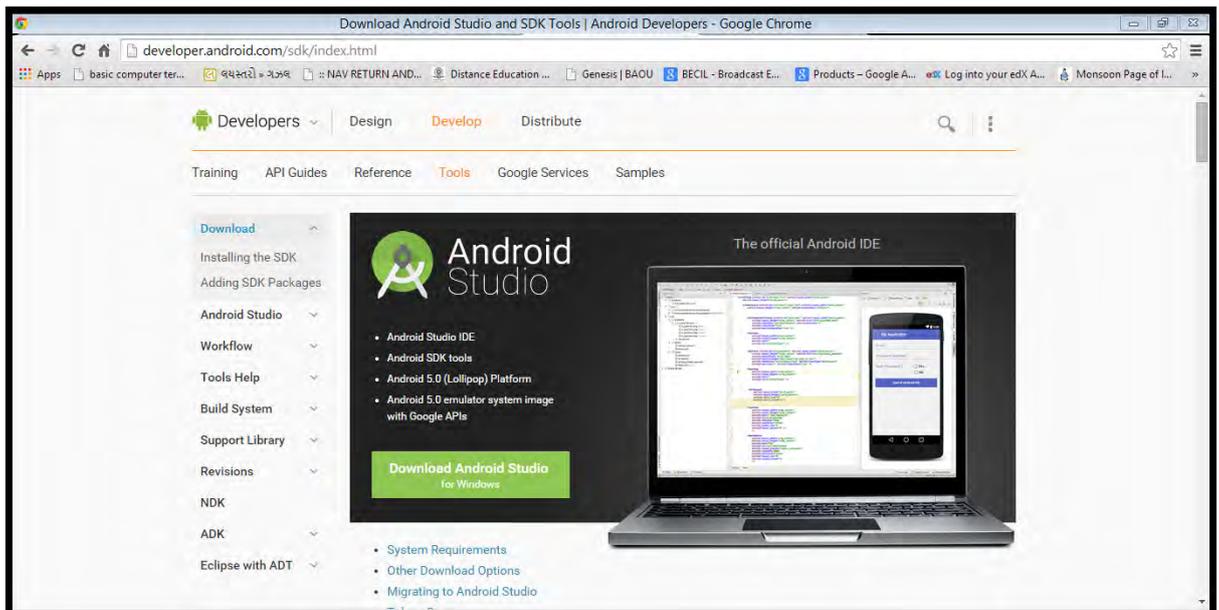


Figure-2

Click green button –Download Android Studio for Windows” it will open following page.

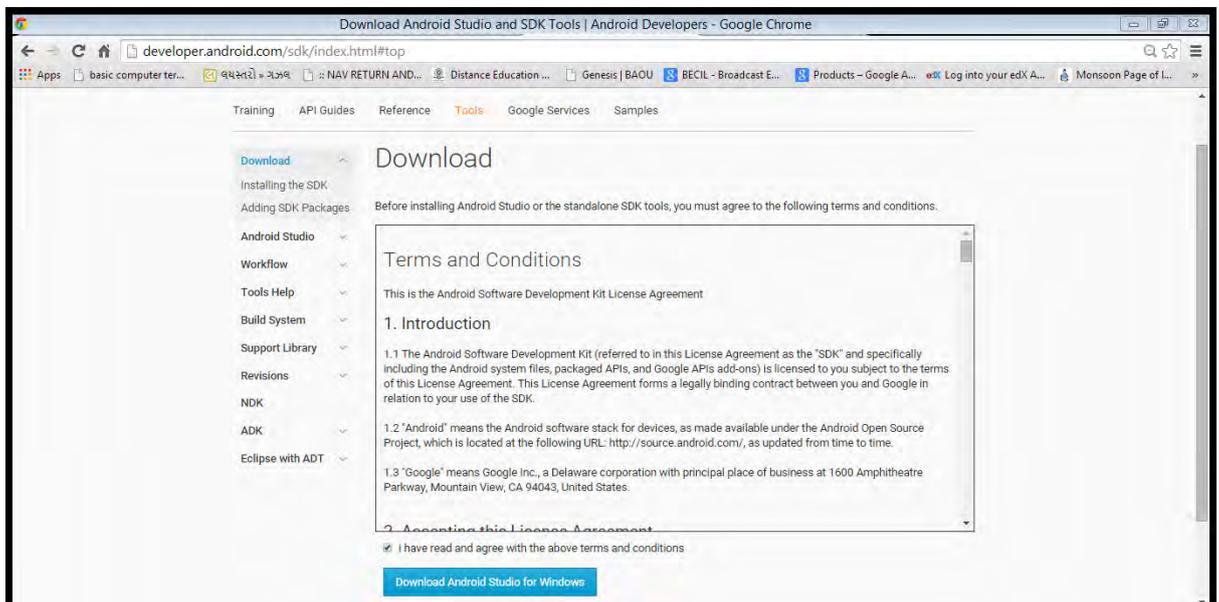


Figure-3

Accept term and condition at the bottom and press blue button –Download Android Studio for Windows”. It will start downloading android studio for windows. Do not start installation before downloading and installing JDK 1.7 is over.

2.4 Downloading JDK

To download JDK 1.7 type following URL in browser. <http://www.oracle.com/technetwork/java/javase/downloads/jdk7-downloads-1880260.html>. It will open page shown below.

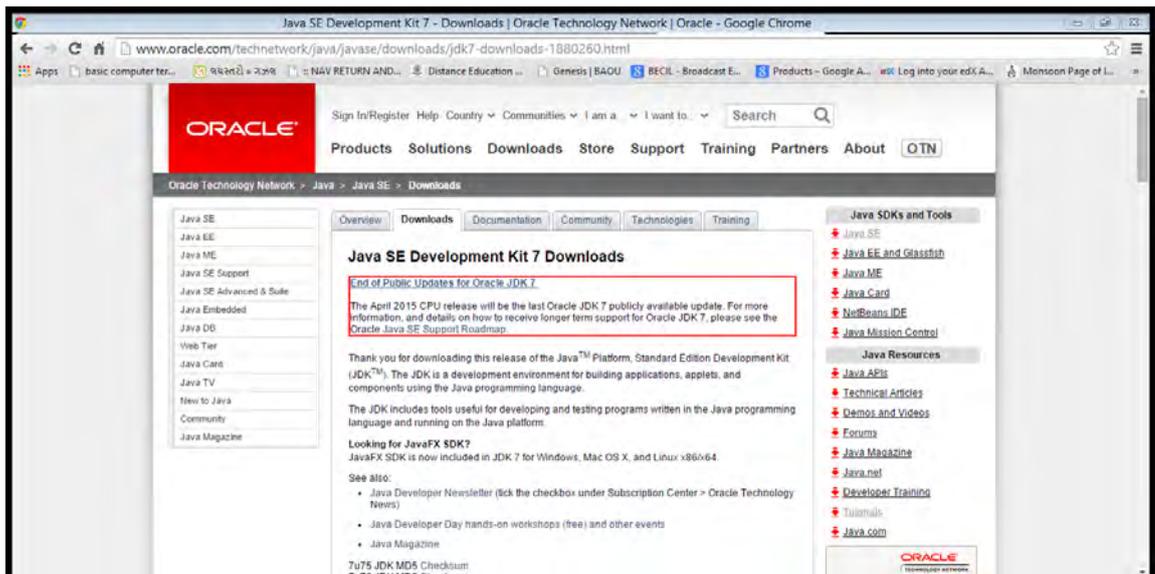


Figure-4

Go to bottom of the page and accept License agreement and download JDK for Windows x86 or Windows x64 for windows 32 bit and windows 64 bit respectively.

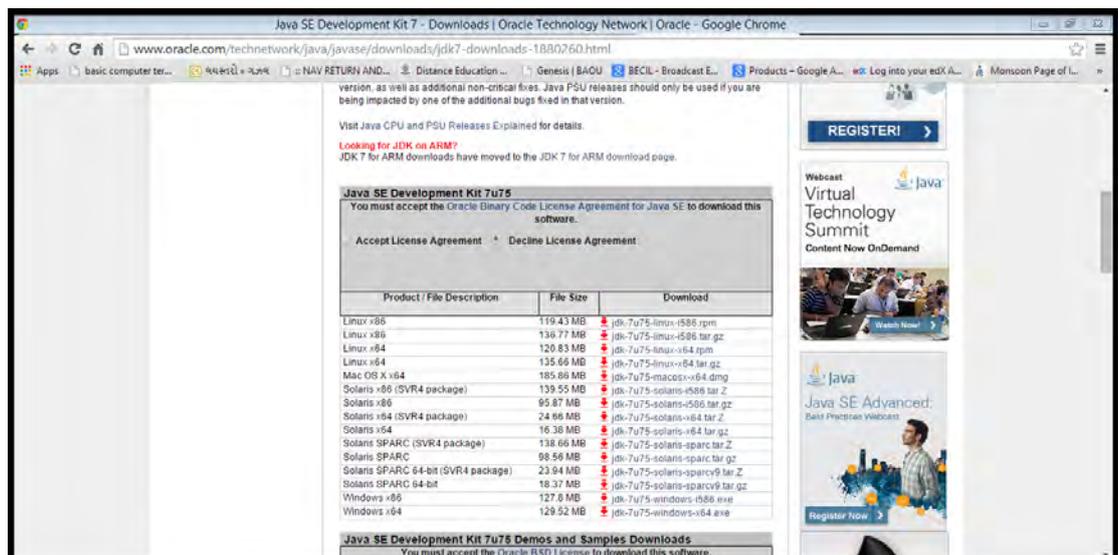


Figure-5

2.5 Installing JDK

Double click downloaded JDK Installation file and follow instructions on screen.



Figure-6

Press Next Button

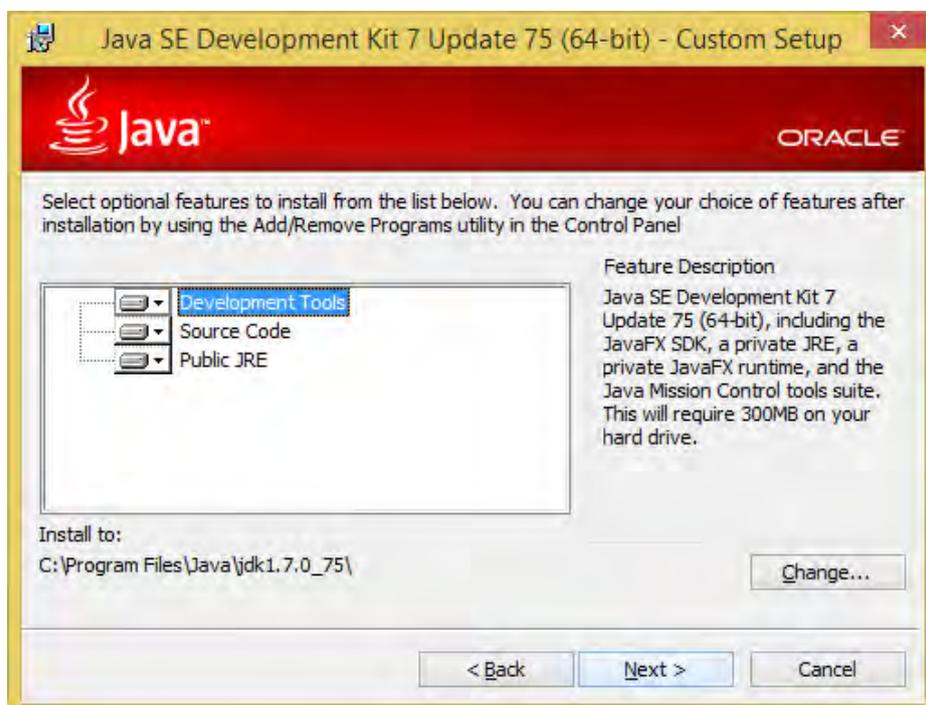


Figure-7

Press Next Button this will start installation as shown below.

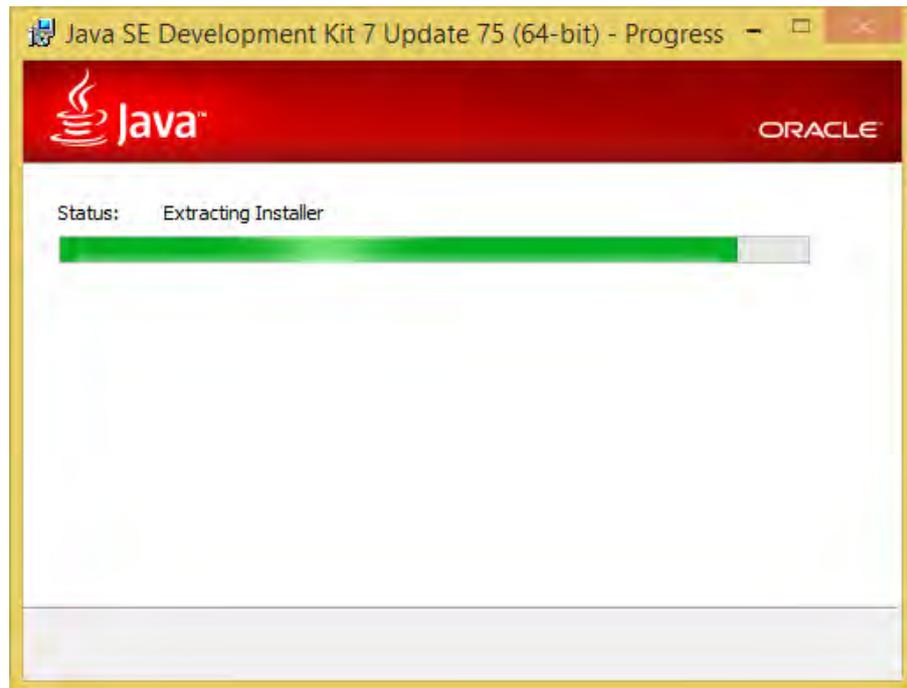


Figure-8

After installation starts it will asks for Java Runtime Environment (JRE) Installation location.

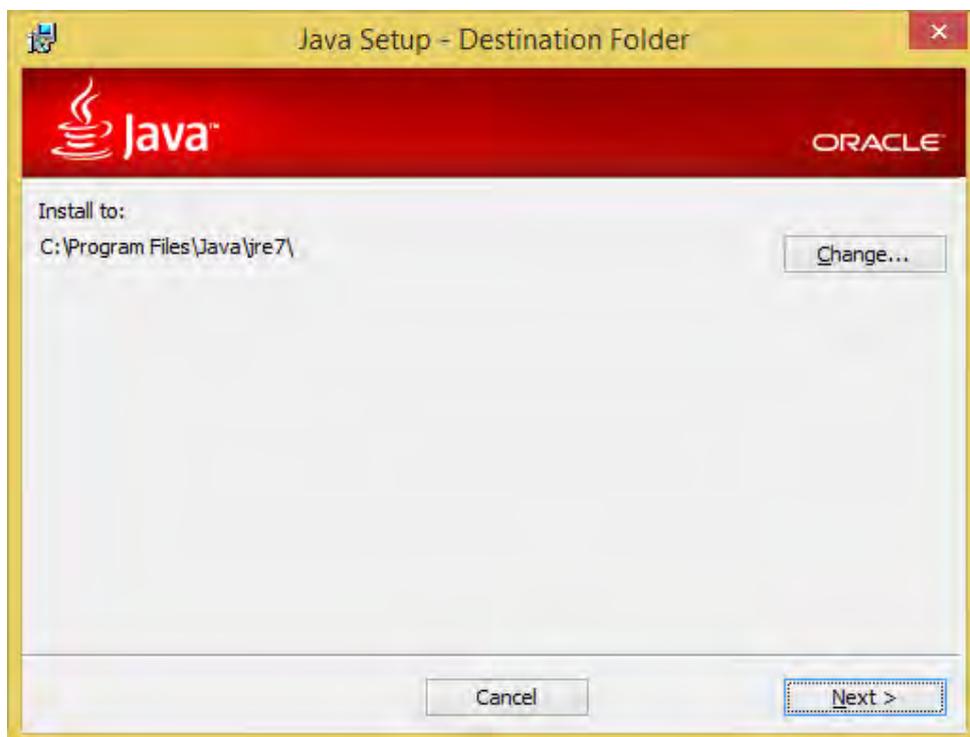


Figure-9

Press Next Button it will start installing JRE as shown below.



Figure-10

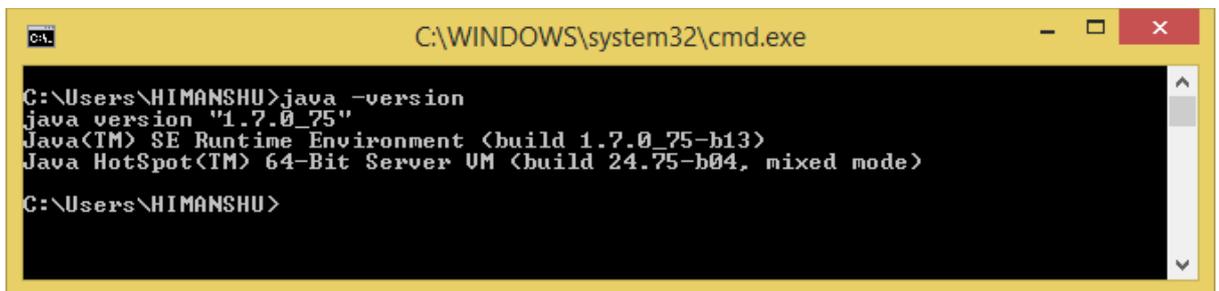
Once Java SDK installation is finished it will display following screen.



Figure-11

Press close button to finish Java SDK installation.

To ensure that JDK is properly installed, open a terminal and type `javac -version` and press enter as shown below.



```
C:\WINDOWS\system32\cmd.exe
C:\Users\HIMANSHU>java -version
java version "1.7.0_75"
Java(TM) SE Runtime Environment (build 1.7.0_75-b13)
Java HotSpot(TM) 64-Bit Server VM (build 24.75-b04, mixed mode)
C:\Users\HIMANSHU>
```

Figure-12

2.6 Installing Android Studio

Launch the .exe file you just downloaded. It will open following screen.



Figure-13

Click on Next button.

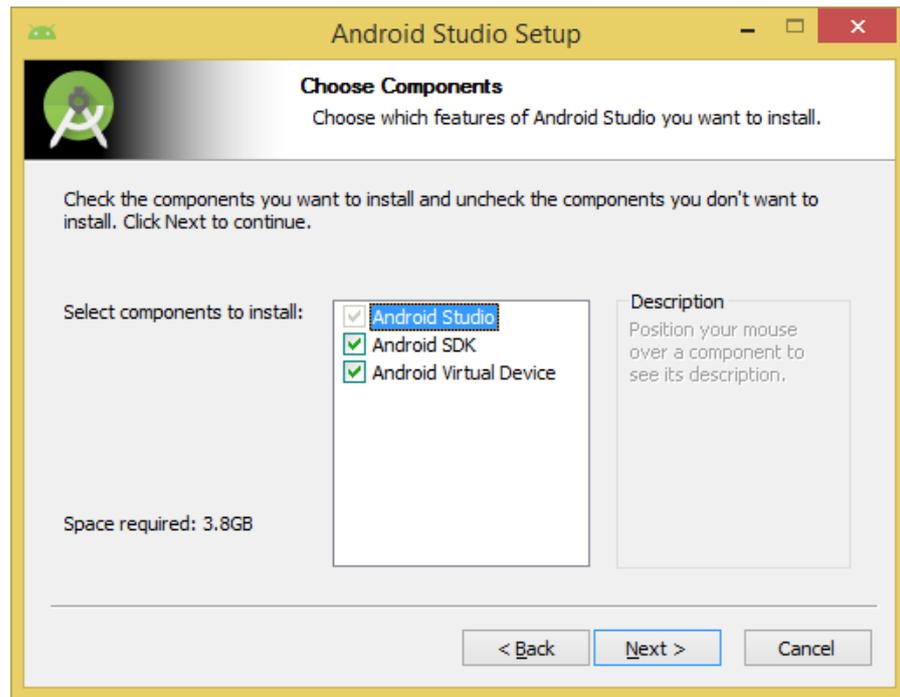


Figure-14

Click Next button.

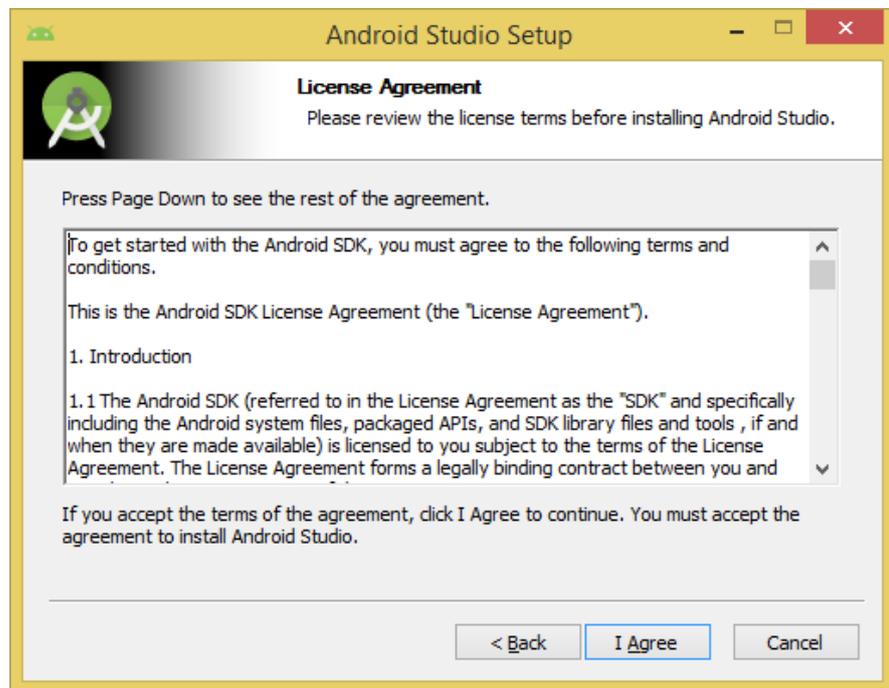


Figure-15

Click on I Agree button.

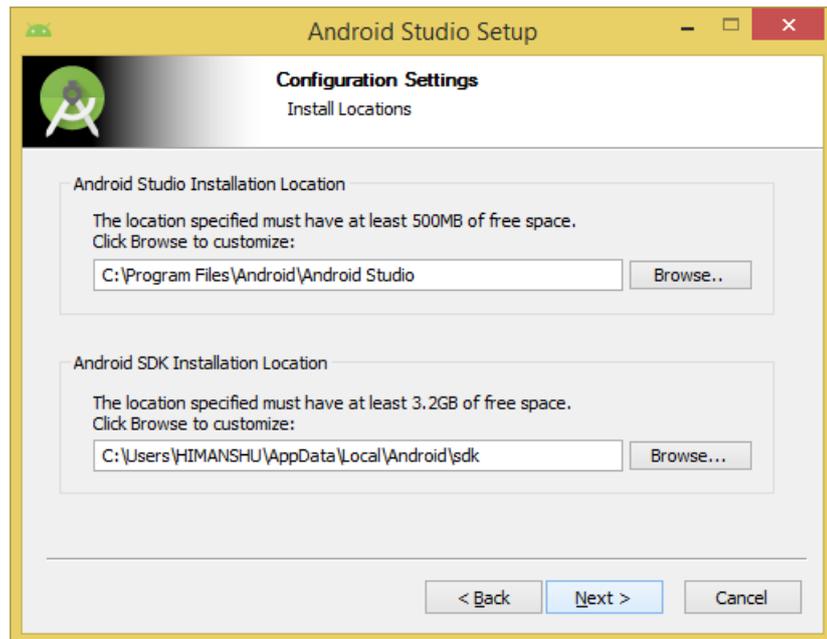


Figure-16

Specify path for Android Studio Installation and Android SDK Installation or use default and press Next button.

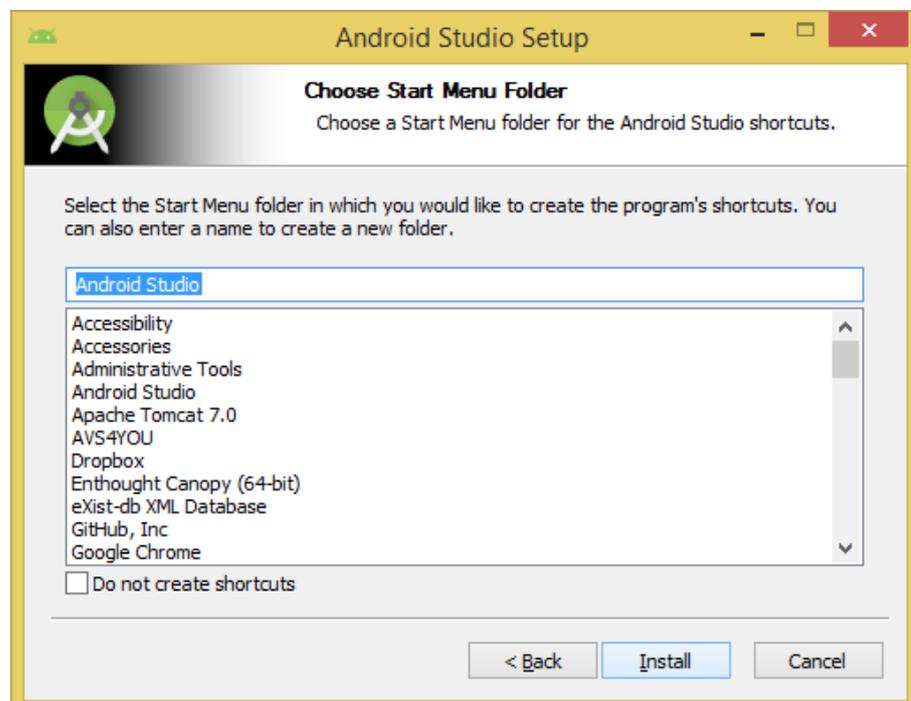


Figure-17

Press Install Button. This will start installation as shown below.

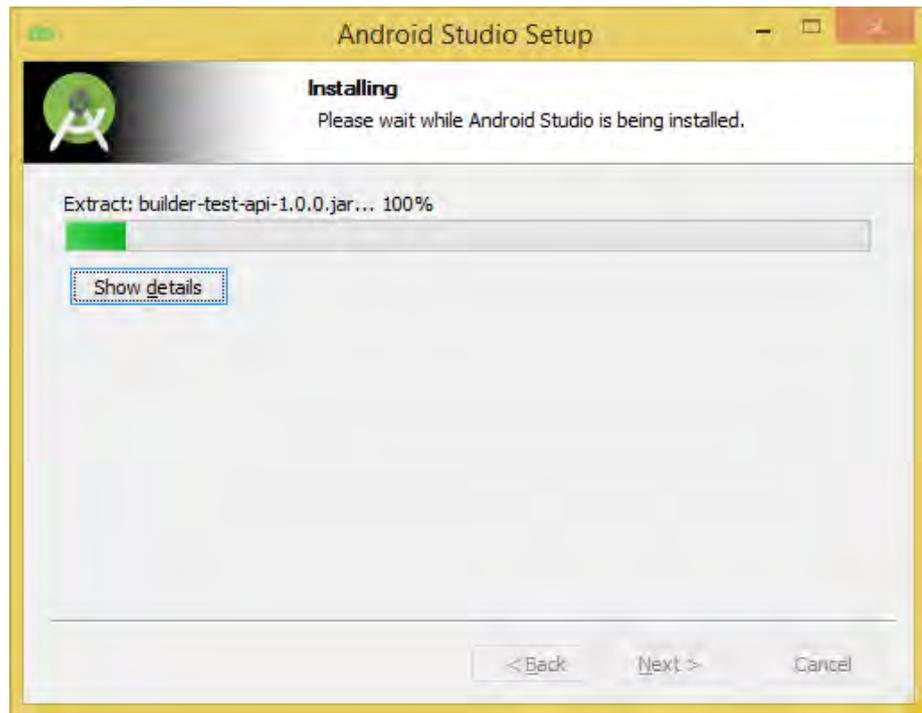


Figure-18

Once installation is finished completed message will be displayed as shown below.

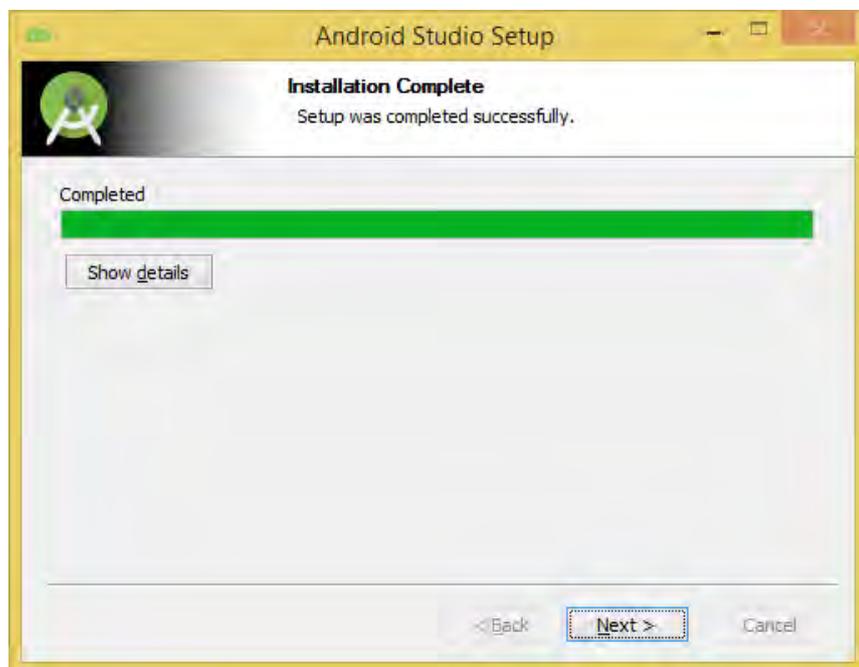


Figure-19

Press next button to finish installation and launch Android Studio.



Figure-20

Important Note: On some Windows systems, the launcher script does not find where Java is installed. If you encounter this problem, you need to set an environment variable indicating the correct location. Select Start menu > Computer > System Properties > Advanced System Properties. Then open Advanced tab > Environment Variables and add a new system variable JAVA_HOME that points to your JDK folder, for example C:\Program Files\Java\jdk1.7.0_XX.

2.7 Launching Android Studio

Click on Finish button to launch Android Studio. It will display following screen

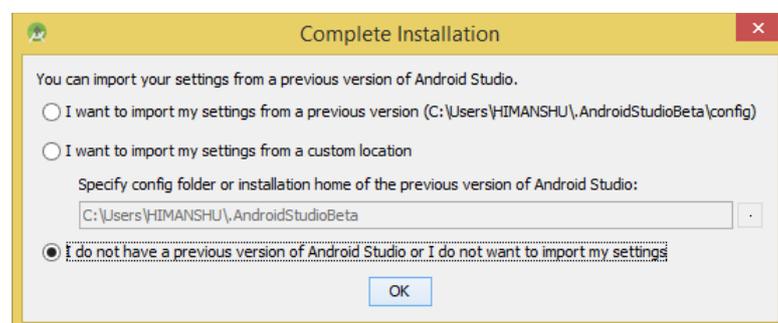


Figure-21

Select last option and press OK. It will download updates and create virtual device for you.

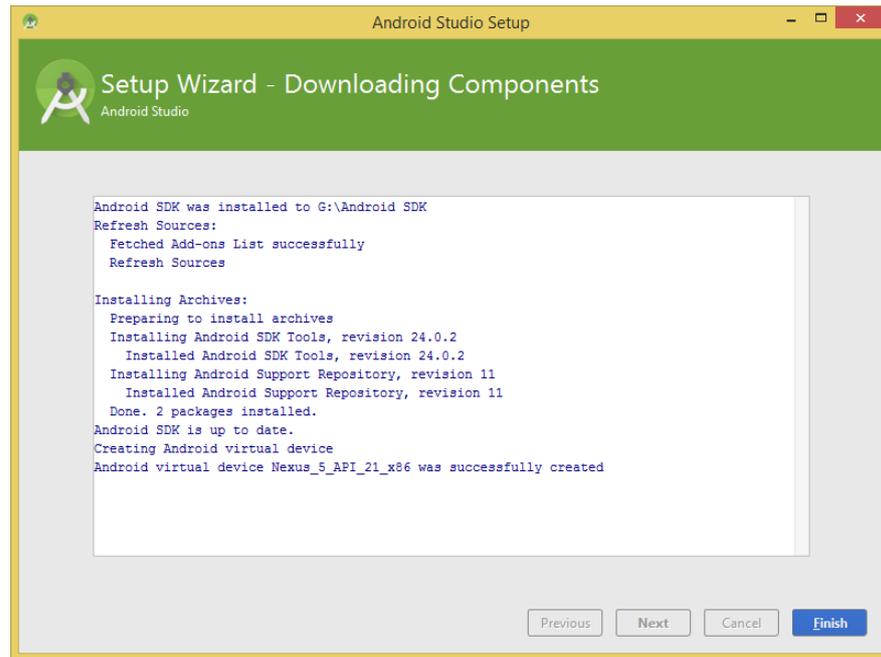


Figure-22

Press finish button to start Android Studio with following initial welcome screen.

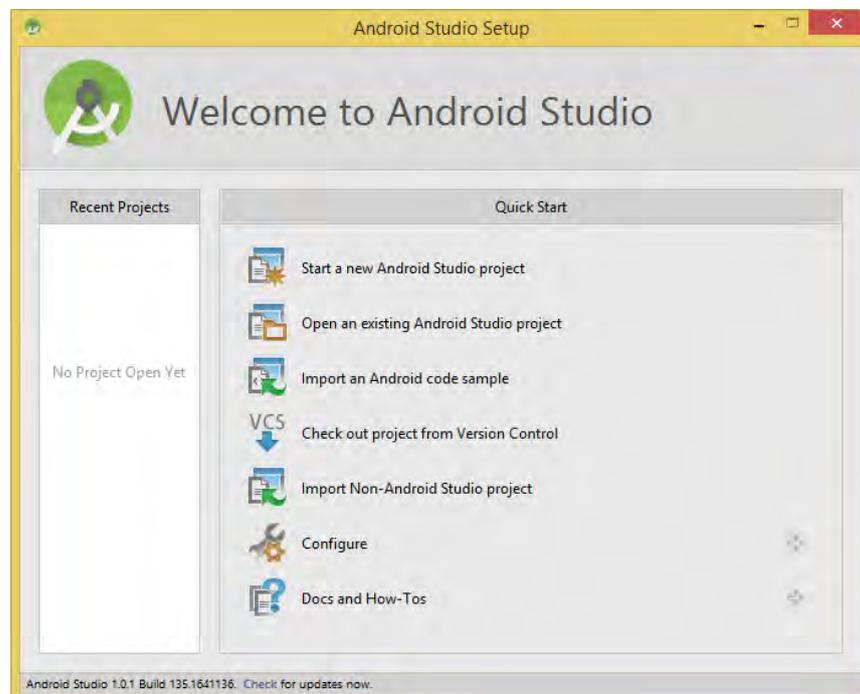


Figure-23

Check your Progress – 1

- 1) Downloading Android Studio is free of cost (True /False)
- 2) We can install Android Studio without installing Java (True/False)
- 3) If the Android launcher script does not find where Java is installed, you need to set an environment variable indicating the correct location of Java.

2.8 Lets us sum up

In this unit we have learn about the System Requirements for Android Studio and systematic method of downloading and installing JDK and android studio. Once the installation is finished successfully we can launch the Android Studio.

2.9 Check your progress: Possible Answers

- 1-a) True
- 1-b) False
- 1-c) True

2.10 Further Reading

- <https://developer.android.com/studio>
- <https://developer.android.com/studio/install>
- <https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

2.11 Assignments

- Explain the steps for downloading, installing and launching Android Studio

2.13 Activities

- Download and install android studio