# 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.

Ç ji	ava SE Development Kit 7 - Downloads   Oraci	e Technology	Network   Oracle - Google Chrom	e	0 9	23
← → C fi 🗋 www.oracle.com/technetw	ork/java/javase/downloads/jdk7-downloads	-1880260.ht	ml		\$	=
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	Java SE Development Kit 7u75 De	mos and Sa	mples Downloads			
	You must accept the Oracle	BSD License t	o download this software.			- 7

Figure-5

# 2.5 Installing JDK

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



Figure-6

**Press Next Button** 

을 Java <sup>.</sup>	ORACL
Select optional features to install from the list belo installation by using the Add/Remove Programs ut Development Tools Source Code Public JRE	w. You can change your choice of features aft tility in the Control Panel Feature Description Java SE Development Kit 7 Update 75 (64-bit), including the JavaFX SDK, a private JRE, a private JavaFX runtime, and the Java Mission Control tools suite. This will require 300MB on your hard drive.
Install to: C:\Program Files\Java\jdk1.7.0_75\	Change

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.

<del>ا</del> ل	Java Setup - Destination Folde	er ×
ے ا		ORACLE
Install to:	alire7)	at in the second se
		<u>C</u> hange
-	Cancel	<u>N</u> ext >

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.



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.

<b>26</b>	Android Studio Setup	- 🗆 🗙		
	Choose Components Choose which features of Android Studio you want to install.			
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.				
Select components to install:	Android Studio Android SDK Android Virtual Device	Description Position your mouse over a component to see its description,		
Space required: 3.8GB				
	< <u>B</u> ack	Next > Cancel		

# Figure-14

Click Next button.

×	Android Studio Setup		×
	License Agreement Please review the license terms before instal	lling Android S	itudio.
Press Page Down to s	ee the rest of the agreement.		
To get started with the conditions.	he Android SDK, you must agree to the following terr	ns and	^
This is the Android SE	OK License Agreement (the "License Agreement").		
1. Introduction			
1.1 The Android SDK including the Android when they are made Agreement. The Lice	(referred to in the License Agreement as the "SDK" a system files, packaged APIs, and SDK library files ar available) is licensed to you subject to the terms of t nse Agreement forms a legally binding contract betw	and specificall nd tools , if an the License een you and	y id v
If you accept the terr agreement to install A	ms of the agreement, click I Agree to continue. You n Android Studio.	nust accept th	ie
	< <u>B</u> ack I <u>A</u> gree	e Ca	ancel

Figure-15

Click on I Agree button.

ĸ	Android Studio Setup	- 🗆 🗙
2	Configuration Settings Install Locations	
Android Studio	Installation Location	
The location Click Browse	specified must have at least 500MB of free space. to customize:	
C:\Program	n Files\Android\Android Studio	Browse
Android SDK In The location Click Browse	istallation Location specified must have at least 3.2GB of free space. to customize:	
C:\Users\H	IMANSHU \AppData \Local \Android \sdk	Browse
	< <u>B</u> ack <u>N</u> ext	> Cancel

Figure-16

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

	Android Studio Setup	×
2	Choose Start Menu Folder Choose a Start Menu folder for the Andr	roid Studio shortcuts.
Select the Start Menu can also enter a nam	I folder in which you would like to create the prog e to create a new folder.	gram's shortcuts. You
Accessibility Accessories Administrative Tools Android Studio Apache Tomcat 7.0 AVS4YOU Dropbox Enthought Canopy ( eXist-db XML Databa GitHub, Inc Google Chrome	64-bit) Ise	~
Do not create sho	rtcuts < <u>B</u> ack <u>I</u> n	Istall Cancel

Figure-17

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

	And	Iroid Studio Setup		
	Installin Please v	<b>yg</b> wait while Android Studio	is being installed.	
Extract: builder	-test-api-1.0.0.jar	100%		1
Show <u>d</u> etail				
			2	

Figure-18

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

6	Android Studio Setup	+ <b>=</b> ×
	Installation Complete Setup was completed successfully.	
Completed		
Show <u>d</u> etails		
		_
	< Back	t > Cancel

Figure-19

Press next button to finish installation and launch Android Studio.

8	Android Studio Setup	×
Android Studio	Completing the Android Setup Android Studio has been installed on y Click Finish to dose Setup.	<b>1 Studio</b> our computer.
	< <u>B</u> adk <b>Ein</b>	ish Caricel

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

<b>R</b>	Complete Installation	×
You can impo	ort your settings from a previous version of Android Studio. o import my settings from a previous version (C:\Users\HIMANSHU\.AndroidStudioBeta\confi	g)
O I want to Specifi	o import my settings from a custom location y config folder or installation home of the previous version of Android Studio:	_
€:\Us	ers \HIMANSHU\. AndroidStudioBeta have a previous version of Android Studio or I do not want to import my settings OK	·
	Un	

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.

# 2.9Check 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