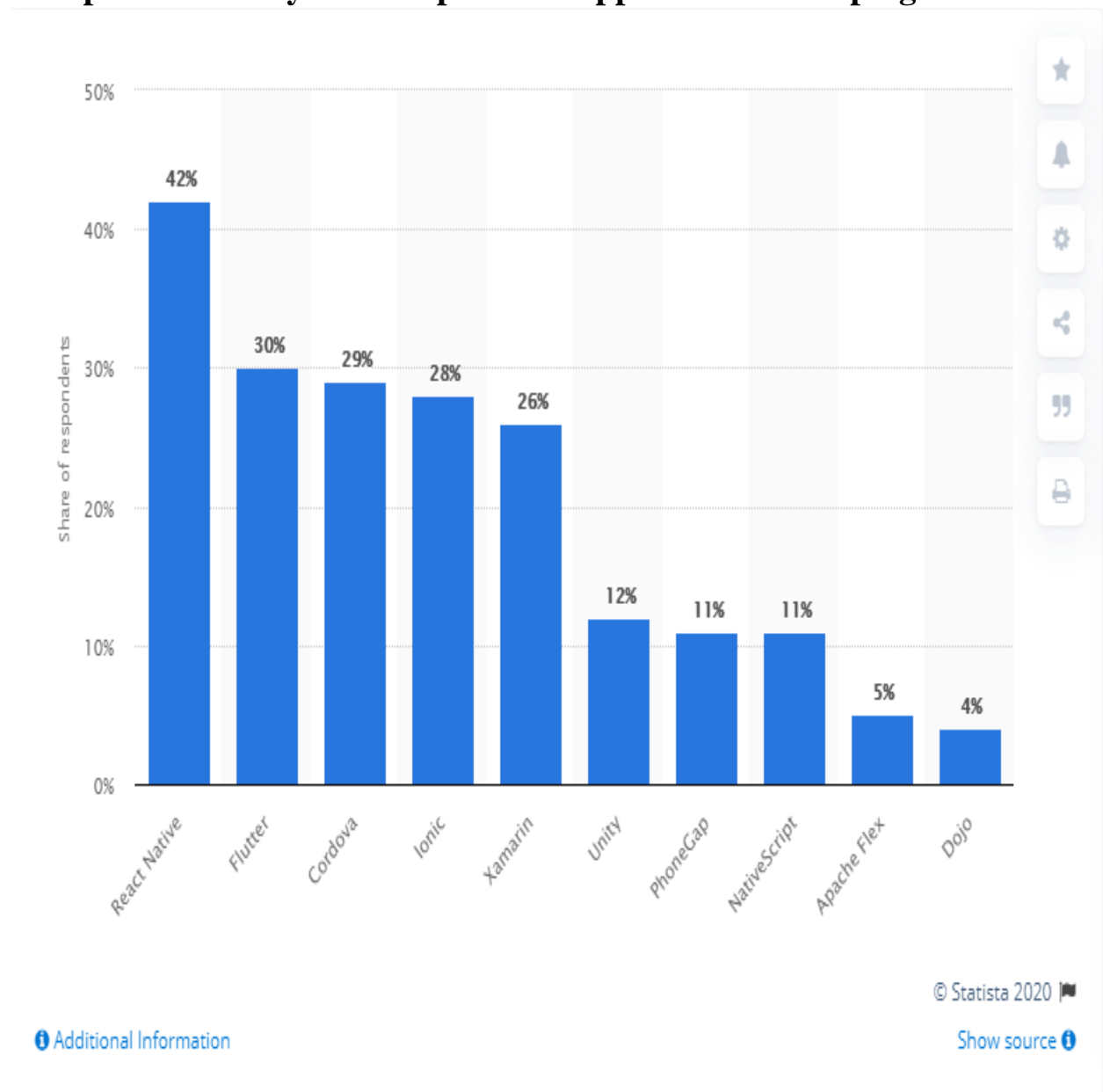# ADF Practical – 8 Steps

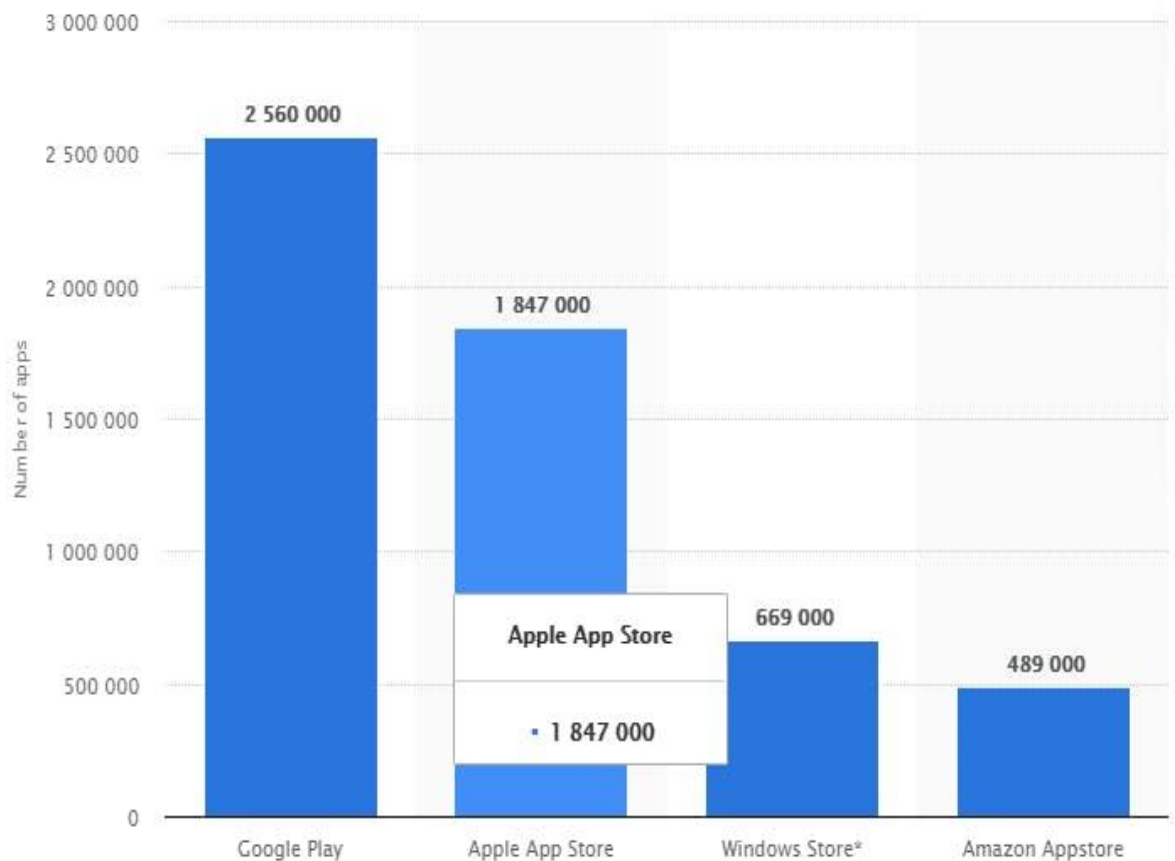## - Submitted by: - Sanket Chheladiya(18bce042)

-Submitted To: - Prof. Dvijesh Bhatt

Q1:-

Comparative Study of cross platform application developing tools.

Chart showing Number of apps by store: Google Play 2 560 000; Apple App Store 1 847 000; Windows Store* 669 000; Amazon Appstore 489 000. Tooltip: Apple App Store · 1 847 000.

Q2: What is cross-programming?

- Cross-programming is about programs that can also run on another platform. Instead of using different apps for different platforms, developers use cross-platform app development frameworks for brilliant execution and saving time. If you develop apps for Android platforms, you no longer have to think about building an app for iPhone.

Q3: Comparative Study

	Ionic	React	Xamarin	Flutter	Kivy
Programming Language	CSS, HTML5, Typescript, JavaScript	Java, Swift, JavaScript, Objective C	C# with .net environment	Dart	Python, Cython
Performance	Moderate	Close-to-native	Ios/Android: Close-to-native Forms: Moderate	Amazing	Use on GPU to maximize performance
User Interface	CSS, HTML	Uses Native UI Controllers	Uses Native UI Controllers	Uses Proprietary widgets for stunning UI	Graphical user interface opensource Python library
Market and Community	Strong	Very Strong	Strong	New to Market so not very popular	Lack in community because package size is huge
Platforms Supported	Android 4.4+, IOS 8+, Windows 10	Android 4.1+, IOS 8+	Android 4.0.3+, IOS 8+, Windows 10	Android Jelly Bean, v16, 4.1.x or newer and IOS 8+	Android, iOS, Linux, macOS, and Windows
Code Reusability	98% code reusable	90% code reusable	96% code reusable	50-90% code reusable	60-80% code reusable

Well-known Application	JustWatch, Pacifica and Nationwide	Instagram, Facebook, Airbnb and UberEats	Storyo, Olo, The World Bank	GoogleAds, The New York Times, eBay	100 Days of Fitness, Game of Thrones CORRAL
Costing	Open Source, Paid plans	Open Source	Open Source, Paid plans	Open Source	Open Source
Use cases	All apps	Simple apps	Simple apps	All apps	All apps
Recent popularity trend	Flat	Increasing	Slightly decreasing	Increasing	Increasing
Backed By	Driffty	Facebook	Microsoft	Google	Kivy organization
Year Introduce	2013	2014	2011	2018	2010

------------------------------Thank You-----------------------