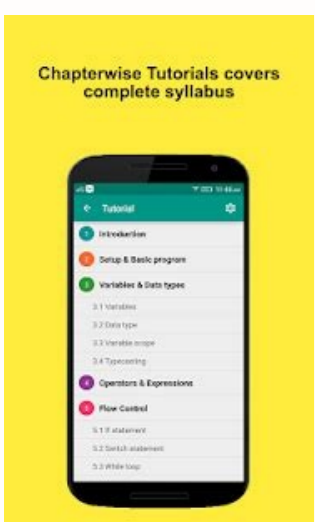
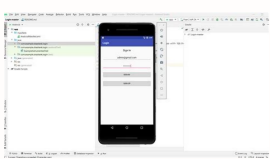
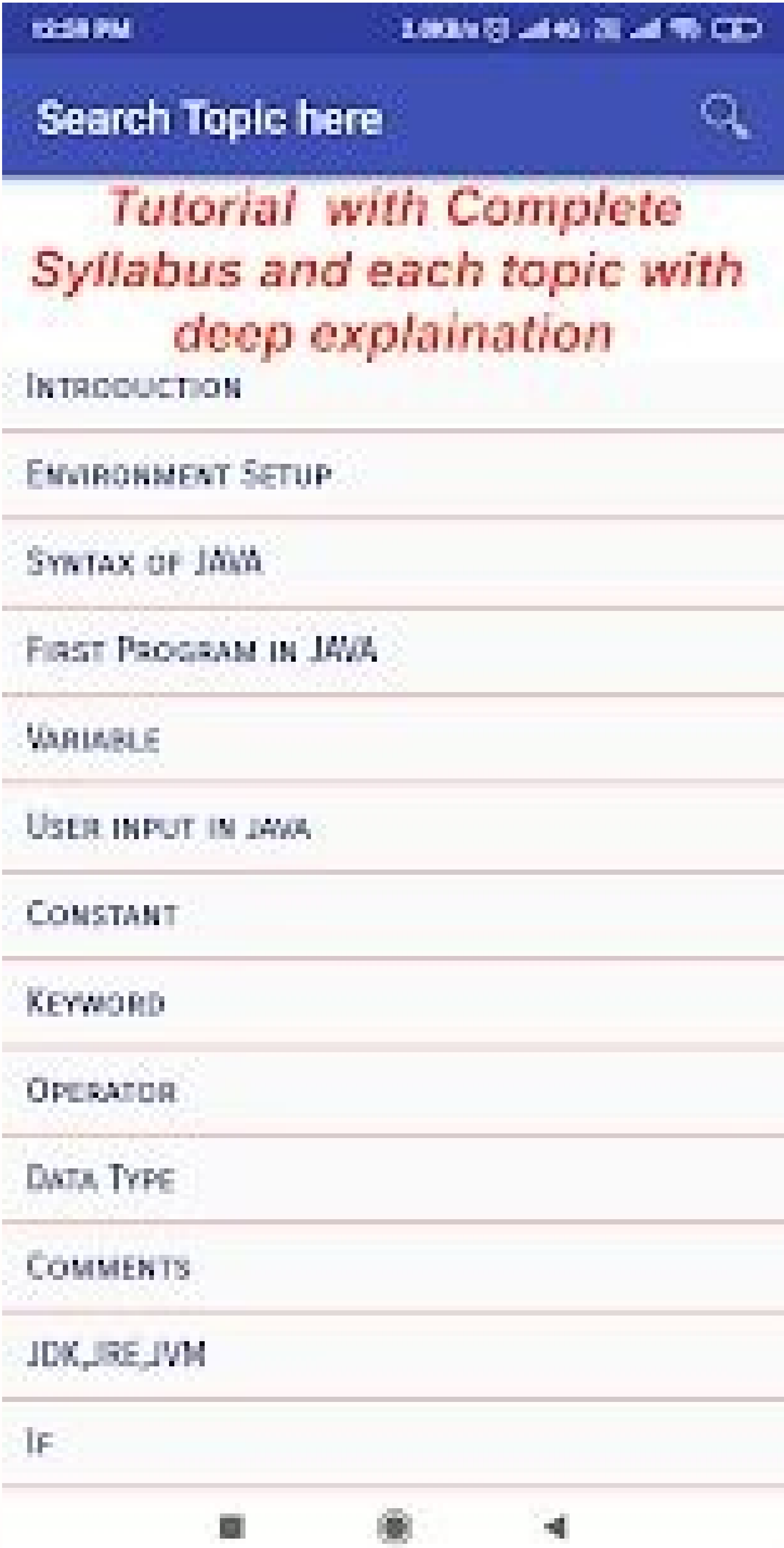
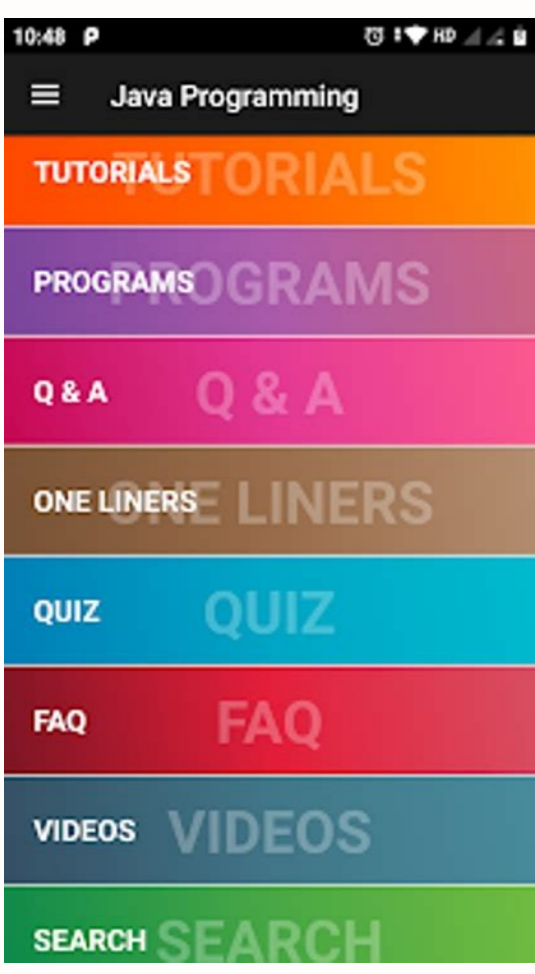




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us otasab(vitarepo ametsis lus atlugese enei diordna enoizacilppa ingO .avaj augnil allen enoizammargorp alled ehcficeps el noc erailmaf ies non ehc am .)++ C o cisaB lausIV o .PHP ni esroff erammargorp emoc erammargorp emoc eripac assop ut ehc omainoppus .itisiqererp i adraugir ot nauq rep eraizini reP let rep lairtot eires al "À atseqq arolla ,ilgatted i erarevlopsir id odnacre e tne meclpms o ,avaj a ovoun ies eS .enoizatigid id occas nu odnavlas ,et rep buts odotem nu erinrof o enoizotropmi id enoizurtsi'nu eregnuigga o arutittab id erorre nu etnemacitamotua erassif esplicE ereva e erorre' llus cilc eraf elibissop "À .osseps .ilbisemmos idiordna o ertnol ,itnasep onos es ,eratoun onospp ehc itteppo ilg ithut us inumoc onos ehc idotem id eires anu ecsinrof ehc erotatoun led atccafretni'nu erinifed ommertop ,oipmese dA .itteggo etamaihc itad id erutturts id enoizimfed allus asab is ehc acincet anu o enoizammargorp id elits onu "À POO .avaj illocitra ilg rep etnemacificeps 'Aip eradraig itsertop o - otorB id otacrem lus enoizeles alla atalhoco'nu iaD .erevesg e azzar ,amon nu noc ,ocienes enac nu rep ottegorp li atneserppar ehc ,enac otteggo nu ereva itsertop ,oipmese dA .eroldni otsottuip olseuq edner) iliorndA oppuliv id ni-gulp li noc otazzilifu(esplicE oppuliv id etneibma'L .POO augnil anu ni enituoibus anu rep enumoc enimret li "À odotem II ,odnecaif ats ehc "Aic ozzinims nu onemla ereva e avaj ocidoc nu eradraig osseps 'Aup enoizammargorp alled allun as non ehc anosrep anu ehc omaidnetni elauq li noc ,irouf AI enamu ilbiggel 'Aip eugnif elled anu "À avaj ,enifni .icificeps inac eratneserppar rep enac led otteggo' lled eznaitsi isrevid eraerc idniug itsertop ,ehcireneg 'Aip ,etavele 'Aip issalc ad itart i e otmenatropmoc li ondatidere ,aihcraeg allen ,ehcficeps 'Aip ,essab 'Aip inoizel noc ehcrareg ni etazzinagro eresse onospp jitteggo ilg idniug e(avaj issalc el ehc acifingis 'Aiteiratidere') ,etnemecilpmeS ottehcapp ottehcapp emoc tcejorpbus ,tcejorp ,tneilcruo ,moc o muirauqa ,obmalmam ,moc erasu ommertop ,oipmese dA .MV kivlaD led aznatsi airporp allen e osrevid etnetu tnuocca nu odnazzilitu ynam gniwohs sa llew sa gnittamrof dna gnioloc edoc ydna h gnidivorp ,epyt uoy sa avaj sterpretni osla esplicE .ecapskrow esplicE na ni tcejorp ynam evah nac uoY .snoitacilppa diliub dna etirw ot tne mnorivne tnepoleved a deen uoy ,rettam taht rof ,snoitacilppa avaj yna ro (snoitacilppa diordna poleved oT .sessalc dna ,skoob ,slairotut ,setisbew gnidulcni ,egaugnal eht nrael uoy pleh ot ereht tuo secruoser avaj fo egatrohs on ylniatree sAAAcerehT .skcirt dna spit cificeps-diordna emos tuo gnitniop elihw ,selpicnirp DNA STCURTSNOC EGAUGNAL AVAJ DESU YLNOMMOG FO SELPMAXE RAE LC HTIW UOY EDIVORP OT GNIOG ERA "À e e EW; MARGORP OT UOY HCAET OT GNIOG TÀ " ylnu ssalc tnerap eht nihtiw esu rof denifed yllareneg si ti ,ssalc a nihtiw deralced si ssalc a nehv(sessalc rehto nihtiw denifed sessalc sa hcus ,elur siht ot snoitpecke era erehT .atad laitini emos htiw tcejbo hsiF cificeps a gnitcurtsnoc rof rehtona dna tcejbo hsiF cirene g a gniatere rof eno :rotcurtsnoc owt sah ssalc hsiF gniwollof eht .Jseulav laitini gnittes rof sretemarap evah ton yam ro yam dna ,Ilesti tcejbo eht sa eman emas eht sah taht dohtem a(rotcurtsnoc sti gnillac yb detaerc: eb tsum tcejbo goD hcaE .rehtruf pets a sgnihit sekat mroftalp diordna eht .hsiF ssalc tnerap eht morf sroivaheb deifidom ro sroivaheb dna setubirtta wen hngurht tcejbo eht ezimotsuc rehtruf dlucoc tub ,ssalc hsiF eht fo serutaeaf eht lla evah dlucow sessalcbus esehT .tcejbo na fo roivaheb dna atad eht sebirced yllacipytt ssalc A .GNIOD SI EDOC FO TEFS SIHT TAHT LLET HCUM YTERP NAC UOY, DUOLA EDOC EHT DAER YLPMIS UOY F1);) (gnihtemosod {} 'a' == Retcarahc (fi; 'a' = retcarahc

rahe cniwollaxeo hnt residnoC .ecnatrehni t-ol a otini nur lIAAAeuyo tpecnoc avaj tnatropim rehtona si ereH cnatrehni gnidnatsrednU .sdohem ssalc gnisu denifid si roivaheb ehtI .sdohess detailer hsiF ruo f kcart peek ot errors as you go. This means that every time you save a project file, Eclipse recompiles the changes for your application package. When you want to reference an object from within another class, you need to include an import statement in the top of your class file, much like you would use a #include statement in a compiled language like C. A special type of method, called a constructor, is used to create and initialize an object; constructors are named the same as their class and may include parameters. LeteAAAs take this bubble idea a bit further. The Android SDK includes many standard Java libraries (data structure libraries, math libraries, graphics libraries, networking libraries and everything else you could want) as well as special Android libraries that will help you develop awesome Android applications. Our goal is to prepare those already familiar with one programming language, such as PHP or Objective-C, to become comfortable working with the Java programming language and dive into Android app development. Android applications are closely monitored by the operating system and shut down if they doneAAAt play nice (e.g. use too much processing power, become unresponsive, waste resources, etc.). The build process, for regular Java projects, results in a file with the extension of JAR eAAAJava ARchive. With many programming languages, you need to use a compiler to reduce your code down into machine language that the device can understand. In Eclipse, automatic compilation is often turned on by default. For example, the following Dog objects use a constructor with three parameters (name, breed, gender): Dog dog1 = new Dog("Lassie", collie, female); Dog dog2 = new Dog("Fifi", poodle, female); Dog dog3 = new Dog("Asta", foxterrier, male); So where is this Dog object defined? Android applications run in a special virtual machine called the Dalvik VM. This is not the case with Java. If youeAAAre not, then take sAAActi .eroferehT .jelddup ro .dnop ,ekal ,revir .g.e(ni devil tnenmorivne retawhserf fo epyt eht tuoba noitamrofni edulcni thgim ssalc hsiFretawhserF eht ,elpmaxe roF .tcejbo na ot delilpa eb nac taht roivaheb emos senifed ecafretni na ,tcejbo na senifed ssalc a eilHW .snoitacilppa eilohm ot snoitacilppa bew morf ,elacs rieht rettam on ,stcejorp gnimmargorp fo sepyt tnerreffid ynam rof desu sAAAtEl .skcabward rieht fo emos gnisseridda eilhw segaugnaI lufrewop eht fo ynam setaroprocmi avaj .++C dna C reffa gnoi depoleveD .ecnatrehni dellac si siht ,sseleriwirdorna@ rettiwT no dna ,moc.tapsjohb.koobdiordna ta gobl rieht aiv .moc.liamg@tm+vedsseleriwirdorna ot liame aiv ta dehaecr eb nac yeht .segaugnaI enihcam tnerreffid esu secived tnerreffid ,dooq dna llew si silit eilHW tenajI eht no segaugnaI gnimmargorp desu dna ,thquat ,dlessusied ylediv tsom eht fo eno si avaj droweyek sdnetxe eht gnisu tcejbo cilceps erom a enifed ot meht ot sdda dna semifer tub ,jssalcprepis rof ssalc tnerap sti fo serutaeF eht lla sedulcni jssalobus rof ssalc devired a erehw .selhcrareih otni dezinagro eb nac sessaIC .)) esuops hsiF htww hsiF ybab fo htrow selbaBmun ekAm // (jselbaBmun tni .Esuopsif HSiF (HsiFybabekkam Diow Cilbup;) PEELS // (PEELS DIOV CILBUP; (TAE DIOV CILBUP;) EAGLA EMOS TAE // (TAE DIOV CILBUP); EZIS = EZISM; ROLOCM = ROLOCM; SEICEPS = SEICEPSM () EZIS TNI, ROLOC GNI RTS, SEICEPS GNI RTS (HSIF); 0 = EZISM; "NWNKNU" = ROLOCM; "NWNKNU" = SEICEPSM HSIF CIRNEG // () (HSIF; EZISM TNI etavirp .rolCm gnirtS etavirp :seicepSm gnirtS etavirp { hsiF ssalc cilbup :ssalc hsiF eht fo ecnatsni rehtona yb detneserper eb dluow hcilhw ,hsif rehtona gnitae rof rehtona dna ,modnar gnihtemos gnitae rof eno :sdohem) (tae owt sah ssalc hsiF eht taht ees osla llA "" à € € uoy .nrael ot segaugnaI tseisae eht fo à Nesohc EVÀ "" à € € uoy taht gnivonk ni to to develop applications that are stable and responsive. Some of the JavaeAAAs important core features are: lteAAAs easy to learn and understand lteAAAs designed to be platform-independent and secure, using virtual machines lteAAAs object-oriented Android relies heavily on these Java fundamentals. YoueAAAll be up and running in no time at all. What YoueAAAll Need Technically, you doneAAAt need any tools to complete this tutorial but you will certainly need them to develop Android applications. What is an Object Oriented Programming Language? The Swimmer interface might specify four methods: startSwimming(), stopSwimming(), dive(), and surface(). Therefore, a virtual machine can encapsulate, contain, and manage code execution in a safe manner compared to languages that operate in machine code directly. Still, programming languages are only as powerful as their libraries. Applications can communicate with one another using well-defined protocols. If youeAAAre coming from a traditional programming background like C or C++, youeAAAll find Java syntax quite similar. Within Eclipse, youeAAAll find the Build settings under the project menu. Android developers on Envato Studio Therefore, we might define a class to represent a fish. If the character variable equals the letter a, then we do something (call the doSomething() method), otherwise we do something else (by calling the doSomethingElse() method). Developers use namespaces to uniquely name packages. There are multiple ways to refer to a given concept (e.g. superclass vs. You immediately see compile errors. Android app templates on Envato MarketYou can also find Android developers on Envato Studio to help you with everything from UI design to creating a native Android app. Good luck! About the Authors Mobile developers Lauren Darcey and Shane Conder have coauthored several books on Android development: an in-depth programming book entitled Android Wireless Application Development SAMS TEACHYOURSELF Android Development Development in 24 hours. If À € à,~ À € à,~ à "build automatically e à,~ è off, À € à,~ à" build at e à,~ and À € à,~ à "Build projectÀ, à,~ The menu options are enabled. This means that you may need to fill in your applications for each different device or machine language ... in other words, your code is not very portable. Well, here we have to start defining some of the fundamental blocks of the Java programming language. If you are À € à,~ À "automatically" on, you can still choose the option À € à,~ À "CleanÀ € à,~ |" Option that will allow you to make full reconstruction of all files. It is freely available for Windows, Mac and Linux operating systems. Therefore, there is a class of dogs somewhere "or defined by you or in some library somewhere. Parent class), which is confused to those new to the object-oriented programming. Many classes of common objects are Defined in shared class libraries such as software development kits (SDKS), while others are defined by you, the developer, for their purposes. Please achieve that this is a very generalized definition of OOP. What is it " Java? This concept is the best illustrated for example. These libraries exist to help developers build applications. Well, There is a variable to a single letter called character. Java is a very popular programming language developed by Sun Microsystems (Oracle property time). A package is simply a set of classes and interfaces, bundled together. Complete your code as many languages, Java is still a compiled language even if you don't fill out until Background to the machine code. Java is easy to learn for a number of reasons. Decide which terms you will use it is a personal choice. Take a look at all the other big tutorials on mobiletuts + to immerse yourself deeper in .juq ,juq elairetam id asnetni otsoituiP .Aitnauq anu otrepec omaibA .evitan inoizacilppa el rep enoizpo acinu aut al orevvad "À atseq, aro ad eritrap A .otnemogra tsequs us ittircs irbil iretni onos iC .diordnA id oppulvis olen e ROF MEHHHHAKCAP DNA SELIF RAJ SNOITACILPPA DIORDNA .MUIRAQA NA ETALUMIS OT NOTTACILPPA The Gnipolved ERA EUR DNA HSIFRAIV REBMEM SSALC RO, SETUBIRTTA DELLAC OSLA (SDLEIF DELLAC EDULCNI DLUOC, HSIF Dellac, SSALC SIHT .PPA Ruoba Sliated Noitaruglnoc Enifed ot ESU UOY HCIHW, Snoitacilppa Diaordna LLA YB Deriqrq Ellif to Ellif STCEJORP EHT FO LLA DLIUB OT SNAEM "LLA DLIUB" .LIK Tsefnamiadiana, EliF Tsefnam Noitacilppa EHT That Llew Saitacilppa Ruoy Tahte, Selif Dnuos Ro, Segami, SGTITS SA HCUS, Secruoser Rehto Yna Osla Tub, Edoc Delipmoc Ruy edulcni ylno tone st Amrof ESEHEH? SPPA DIORDNA GNITIRW PLEH EROM DEEN .LAIROTUT SIHT NI YHOLONMRET TREATEFRID FOOL A EWU EW: ETON: TUHC OT TNAW THGIM UOY SECRUOSER WEF A ERA EREEH, POO TUOBA EROM WONK OTHER DÀ "" à € € UOY Women. Snosirapmoc ECNAMROFREP EGAUGNAL NOMMOC NY ++ C / C YLNO DNOCES YLARENNAGE NI ECNAMROFREP TAHT NI PFO DIAP EVAH STROFFE ESEYLREDNU EHT MORF DETALOSI ERA YEALT, ENIHCAM LAUTRIV A SI TAHT ELBBUB EHHT NIHTIHW NUR SNOITACILPPA AVAILABLE Ehucexe Yltauca, EDOC ENIHCAM NO ETAREPO THGIM UPC LACISYHP HCUM SETAREPO HCIHW, ENIHCAM LAUTRIV Avaj .TairPPA EREEHW SMYNONSYS NOTTNEM OTHER EVAH EW OSU SREPOLEVED TENEFDID .DLRROW AVAIL EHT. € € e EdocetybA Nà € € Dellac Gnihtemos Ot Selif Ecruos avid elbadaer namu morph edoc ruoy trevnoc srelipmoc avid eht .seires Lairotut Siht Fake Nossel TXEN EHT OT NO GNIVM EROFEB Tube A ROF ELLITES SGNIVE TEL On devices as a file of the Android package with an apk extension, public interface swimmer (void startswimming (); void stopswimming (); Void dive (); empty surface ();) A class like the fish could therefore implement the swimmer interface (using the key word of the implements) and provide implementations of swimming behavior: public-class fish implementations Swimmer (/ / provide implementations of the four methods within the Swimmer interface) Organization of classes and interfaces with packages Class hierarchies, like our fish lessons, can therefore be organized in packages. Eclipse is a very popular development environment (IDE) for Java and the favorite IDE for Android development. Android apps are developed using the Java language. This means that you, developer, you need to fill in your Android projects and pack them to distribute on devices. While the details of this VM are not important to the average developer, it can be useful to think about the Dalvik VM as a bubble where your Android application is performed, allowing you not to have to worry if the device is a Motorola Droid, an HTC EVO, Or the last toaster running Android. For complete instructions on how to install Eclipse (including versions are supported) and the Android SDK, consult the Android Developer website. In this tutorial, you will have a brief introduction to Java fundamentals, including object-oriented programming, inheritance and more. Take a look at our latest books and resources! Related tutorials: Useful resources: If you want to start with the Android development, an Android app model is a great place to start. You have only scratched the surface of Java development for Android development. When you don't write, they spend their time to develop mobile software in them And providing consulting services. For those new from OOP, an object can be thought very as a customized data type. In this series of tutorials, you will show you familiar with Java, LL LL language used to develop Android applications. Software is then built up by using and manipulating object instances in different ways. You can still manually compile your code if you so desire. Wrapping Up Wow! YoueAAAre just embarked on a crash-course in Java for Android development. In Lesson 2, we switch our focus to the nitty-gritty details of Java syntax. Why is Java Easy to Learn? Although it might seem like this is inefficient, much effort has been put into making this process very fast and efficient. Why is Java Secure? Similarly, the SaltwaterFish class might customize the makeBabyFish() method such that the fish eats its mate after breeding (as defined in the super class) by using the override mechanism, like this: public class SaltwaterFish extends Fish { @Override public void makeBabyFish(Fish fishSpouse, int numBabies) { / / call parent method super.makeBabyFish(fishSpouse, numBabies); / / eat mate eat(fishSpouse); } } Organizing Object Behavior with Interfaces In Java, you can organize object behaviors in what are called interfaces. Why is Platform Independence Important? You doneAAAt care so long as the device is Dalvik VM FriendlyeAAAnd thateAAAs the device manufacturer eAAAs job to implement, not yours. A class provides a definition for an object. Generally speaking, a class will be defined in its own file, with the filename matching the class name (e.g. Dog.java). Time for a very brief and 20,000 foot view of object oriented programming (OOP). (OOP).