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## Learn java programming tutorialspoint

Have you ever used an app or website and wondered if you could make something like that yourself? If you learn how to program, you can! In fact, you can benefit from learning the basics of programming even if you don't develop the software completely. In this post I am going through some questions and answers to help you get started programming. Why Should You Learn Programming? Learning programming is a good idea, as you can use your knowledge in many different fields. You can obviously use it to create apps and websites, but you can also use it to accomplish many other things. For example, you can write a macro to automate tasks in Microsoft Office, or you can write scripts to calculate problems in business. To learn programming, you'll need patience, attention to detail, and the ability to solve problems. Since programming can be difficult, it will help if you have a specific project that you want to build in the end. Working towards your goals will help you overcome the difficulties you encounter. In addition, if you know what you want to build, you will be able to decide which language you should learn. Which Language Should You Learn? All popular languages have the same basics, so you don't have to worry too much about which language you learn first. It still makes sense to learn the language that best suits your purpose, so check out this flowchart for quick help:Compiled Languages (on the right) has more rules to help prevent errors. People usually use special software (known as IDE) to program in it, which has features to help coding. These languages are popular in large corporations and large websites. Microsoft created C# and provides tools for coding in it, while Java is used in Android applications and taught in many colleges. Interpreted languages have fewer rules and you can write short programs faster with them. Programmers often use a lightweight text editor to code in this language. These languages are spoken by many startups and websites. PHP was very popular a decade ago, and there are still a lot of scripts and sites written in PHP. However, many people consider PHP cluttered and inconsistent, so you may have to choose a different language if you create a site from scratch. Ruby and Python are similar languages. Ruby is used within the framework of the hugely popular website Ruby on Rails, while Python is used both on the web and in other software. Javascript (which is not related to Java) is the only language that can run in a web browser, so all visual effects on the web are written in Recently, it also began to be used to create an entire website. Whatever language you choose, the important thing is to start learning it! The best way to start programming is to use interactive tutorials online. Codecademy and LearnStreet are popular sites for learning scripted languages, and you can learn Java on Learneroo, a site I recently created. It is also a good idea to get book or reference so you can learn more when you're done with beginner tutorials. If you like video courses, check out the 20 places to study online, which list sites that offer general science and computer courses. You will then be ready to create your own project without text telling you what to do. This means you need to know where to seek help. To find out more about programming languages, you must first check the official documentation for that language. When you're having trouble, a well-placed Google search can give you information about most issues. If you can't find your exact problem online, you can ask for it on StackOverflow, the programmer's Q&A site. If you ask a specific question clearly and show that you have done your research, random people online will often quickly help you for free! If you need more help, you may consider going to a programming meeting, finding a mentor, or going to a complete programming bootcamp. Good luck learning to program! I am a Java programmer, blogger at developers.java and , last, the last few years have brought a lot of changes and posed severe challenges by staying up-to-date with new Java versions every 6 months, and many releases of popular frameworks like Spring 5, Spring Security 5, and Spring Boot 2 etc. When I started 2019, I thought Java 10 was new and before I could finish studying Java 10, Java 11 and Java 12 were out. I barely had time to look at it except for some major features like string in switch case. They come very quickly but come with many interesting features such as VAR with local variables, API enhancements, GC enhancements, Thread Local handshakes and more. I've documented it here and I'm really excited to use it in the 2020s.Similar to the spring framework and Spring Security, I don't know all the changes to Spring 4.0 and Spring Security 4.0, my project is still using Spring Security 3.1 and our boom now we have version 5.0 for Spring and Spring security. My learning speed has slowed down a bit in recent years and I haven't managed to keep myself up-to-date with the latest and greatest as I haven't been comfortable with Git, JavaScript frameworks like Angular and React, recent changes to unit and integration testing rooms and new versions of popular frameworks like Spring MVC, Spring Security, and Spring Boot.I managed to catch up a lot from recent years, hence, 2020 will be all about consolidation and keeping myself up-to-date with the most important things on the side improving my toolset chain and exploring the DevOps landscapeWhat skills Java Programmers should learn in 2020 Here is my list of java developers to learn in 2020:1. DevOps (Docker and Jenkins)This is one area where I saw a lot of traction last year as more and more companies are moving to DevOps and adopting integration and continuous deployment. DevOps is area and you need to learn a lot of tools and principles and that's what overwhelms a lot of developers but you don't have to worry. I've shared a DevOps RoadMap that you can follow to learn and master DevOps at your own pace. This means if you are an experienced Java programmer with a passion for managing environments, automation, and improving the overall structure, you can become a DevOps Engineer.If you are looking for some amazing resources then Master Jenkins CI For DevOps and Developers is a great course to get started, especially for Java developers, and if you want to learn more, this DevOps Roadmap is the perfect companion. 2. GitGit and Github have been around some time and while I've used Git in the past with Eclipse, but I haven't been a Git master in the command line, and I'm not alone!Many programmer hasn't mastered Git yet? Just because they don't need it yet because there may be code in SVN or CVS. I also occasionally download projects from Github and run from Eclipse but still far from being expert with Git commands, especially reversing changes and handling errors. Because now most companies migrate their projects from SVN, CVS to Git. I just bought Git Complete: A definite step-by-step guide to Git from Udemy on their last \$10 sale and this will be the first item completed in 2020.If you're on the same boat and want to learn or improve your Git skills in 2020, check out that course from Udemy, it's very useful.3. Java 9,10,11,12 or maybe 13As I said, I am still learning Java 8 and many Java developers as well. I will also spend some time studying the new features of Java 9, Java 10, Java 11, and Java 12 in 2020 but for me, Java 8 is still a priority, until I move to Java 11 which is another LTS release. JDK 9 carries a lot of stuff in terms of modules, Jigsaw, Reactive Streams, Process API, HTTP/2 client, JShell, and API upgrades like the collection factory method and I'm really looking forward to learning about it at the earliest opportunity. Similarly, JDK 10 carries VAR to give you a sense of dynamic typing and some GC enhancements. In the last \$10 Udemy sale, I have purchased a number of courses and one of them is The Complete Java MasterClass, which was updated to Java 12 and I am looking forward to starting my Java 12 journey with it. Btw, if you haven't started with JDK 8 then here's a list of my favorite Java 8 tutorials and courses that you can free of charge: 10 best tutorials for learning Java 8.4. Spring Framework 5I has heard about some new features such as reactive programming model in Spring 5, recent adoption of Java features, some improved unit testing etc but I haven't Anyway, I've started studying Spring 5.0 by following Spring 5. 0: Beginner to Master and will keep the momentum going in 2020. If you use Spring, this may be the best time to learn Spring 5.0.If you like books, you can also check out this list Spring Books advanced to Java developers from Manning and Packt Publications.5.Unit testingAnother areas that I want to upgrade in the coming year. There are many new frameworks and tools available for Java programmers to test units and integrations testing their applications such as Mockito and PowerMock to mock objects, the Robot Framework, and Cucumber for automated integration testing and of course the new and shining JUnit 5 library. There's a lot to learn on this front. If you can invest some time improving your unit testing skills, not only will your coding skills improve but also you will become a more professional developer, which looks to shape every company. To get started, you can check out Udemy's JUnit and Mockito Crash Course.And, if you need more options, you can check out these top 5 JUnit and Mockito courses for some inspiration.6. RESTful Web ServiceOne another thing I want to keep improving in 2020 is my knowledge of writing REST APIs and implementing a secure and scalable RESTful Web Service in Java using Spring. This is one of the most desirable skills in the Java world and not many people know Java and REST well. If you're also on the same boat and want to learn how to develop a RESTful Web Service using Spring, eugen Paraschiv's REST of Spring MasterClass is a good starting point.7. Spring Security 5.0This is the third major upgrade on the Spring Eco-System. The 5th version of the popular security framework has some bug fixes and major OAuth 2 modules, which you should not miss. This is another priority item for me in 2020 along with the Spring 5.0 framework things. Fortunately Eugen has updated its best-selling Learn with Spring Security course to include 5.0 features and added a separate module for OAuth 2.0, perhaps the best material for studying current Spring 5.0 Security.8. Spring Boot 2 The Spring Boot Framework also has a new release of Spring Boot 2. If I get a while after all these goals this year then I will spend some time studying Spring Boot 2.If you also want to learn Spring Boot 2, you can check out this free Spring boot course from Udemy to get started quickly. If you need more options then you can also check out this list of top Spring boot courses for Java developers to learn in 2020.9. Angular 2+ or React JSThese's two JavaScript frameworks have completely changed the way you develop web applications. As a Java developer, I've used Servlet, JSP, and JQuery on the client side but haven't tried my hand with Angular or React.In 2020, one of my goals is to learn Angles and I'll start my journey with Udemy's Angular 7- The Complete If you are in the same boat then you can also see that course, it is very useful.10. AndroidIf you don't know how to write Android Apps in 2020 then you lack something. Mobile is one of the best platforms to reach a large number of people and Android is probably the most popular platform for writing mobile apps. Although I know the basics of Android, I have to publish any Android app, maybe 2020 will change it. If you want to learn Android in 2020, you can check out the Complete Android N Developer Course, one of the better courses for learning Android.If you need more options then I also have a short list of some Android online courses to refresh my knowledge and get to the next level. If you are also in the same boat then you may find it useful as well.11. Apache Spark and KafkaOne the other things I want to continue to explore in depth by 2020 are the Big Data space, and in particular the Apache Spark and Apache Kafka frameworks. I'm not sure if I'll get the time to look at other Big data technologies but things are excellent and along with DevOps and Machine Learning, Big Data is probably the hottest technology at the moment. If you also want to learn Big data in 2020, you can check out The Ultimate Hands-On Hadoop --- Tame Your Big Data! Of course it is. If you need more options, you can also check out my shortlist of courses to learn Apache Spark for Java developers from Udemy and Pluralsight.It's all about what Java developers should learn in 2020. As I have said, Technology is changing at a rapid pace and the biggest challenge for programmers is to keep themselves up-to-date. Apart from this list, there are many other things you can look for in the new year for example, learn a new programming language like Kotlin but for me, I would be more than happy if I could achieve this goal in 2020.Programming Resources and Other Articles you might like 10 Books Every Programmer Should Read 10 Tips to Improve Your Programming Skills 10 Object-Oriented Design Principles Every Programmer should know 10 Articles Every Programmer Should Read 10 Tools Every Software Developer Should Know 10 Program Data Structure and Algorithms for Programmers 5 Java and Web Development Frameworks Programmers Must Learn 10 Units of Integration Testing and Testing Tools for Java devsThanks to read this article so far. If you like this feature, please share it with your friends and colleagues on Facebook. If you have any questions or feedback, please contact the note. All the best with your learningBergliah Hacker Noon Create your free account to unlock your custom reading experience. Experience.

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