Fraz OOPs Sheet for Interviews

Youtube Channel

Fraz: https://www.youtube.com/channel/UC81Q2wnuk5KqOFVgAbq4nUw

Lead Coding by Fraz (DSA) : https://www.youtube.com/channel/UCg7k-dzPbfQq44mw6tkeF-g

		Topics to be covered	Reading section for C++	Reading Section for Java	Watching Section for Conceptual Clearity
Basics		0. Introduction	https://www.techtarget.com/searchapparchitecture/definition/object-oriented-programming	https://www.techtarget.com/searchapparchitecture/definition/object-or	https://www.youtube.com/watch?v=AGrcyWV7hL8
		1. What is OOPs?	https://www.w3schools.com/cpp/cpp_oop.asp	https://www.w3schools.com/cpp/cpp_oop.asp	https://youtu.be/6Ff5ls0TXHU
		2. OOPs vs Object based Programming languages	https://referbruv.com/programming-questions/what-is-the-difference-between-an-object-o	https://referbruv.com/programming-questions/what-is-the-difference-b	https://www.youtube.com/watch?v=YW85gxjHPuo
		3. Real world examples of OOPs	https://jeemariyana.medium.com/oop-concepts-with-real-world-examples-cda1cd277f4f	https://jeemariyana.medium.com/oop-concepts-with-real-world-examp	https://www.youtube.com/watch?v=xTl8R0e7a8E
		4. Advantages and Disadvantages of OOPs	https://www.geeksforgeeks.org/benefits-advantages-of-oop/	https://www.geeksforgeeks.org/benefits-advantages-of-oop/	https://www.youtube.com/watch?v=KBFAhY2Z0Fo
		5. What are Classes and Objects	https://www.guru99.com/difference-between-object-and-class.html	https://www.guru99.com/difference-between-object-and-class.html	https://www.youtube.com/watch?v=unZ3YYvyuEA
		6. Access Modifiers	https://www.geeksforgeeks.org/access-modifiers-in-c/	https://www.javatpoint.com/access-modifiers	
Features		7. Encapsulation	https://www.geeksforgeeks.org/encapsulation-in-c/	https://www.enjoyalgorithms.com/blog/encapsulation-in-oops	https://www.youtube.com/watch?v=JFbL5HYQcs8
		8. Data Abstraction	https://www.enjoyalgorithms.com/blog/abstraction-in-oops	https://www.enjoyalgorithms.com/blog/abstraction-in-oops	https://www.youtube.com/watch?v=nvrylVckaLU
		9. Inheritance	https://www.javatpoint.com/cpp-inheritance#:~:text=In%20C%2B%2B%2C%20inheritan	https://www.javatpoint.com/inheritance-in-java	https://www.youtube.com/watch?v=zDLzfljx7Lo
		10. Polymorphism	https://www.tutorialspoint.com/cplusplus/cpp_polymorphism.htm#:~:text=Typically%2C%C	https://www.tutorialspoint.com/java/java_polymorphism.htm#:~:text=P	https://www.youtube.com/watch?v=T3996kPxmzA
		11.Dynaminc Binding	https://www.upgrad.com/blog/dynamic-binding-in-c-plus-plus/	https://www.geeksforgeeks.org/static-vs-dynamic-binding-in-java/	https://www.youtube.com/watch?v=klh7G7Os2h4
		12. Message Passing	https://www.geeksforgeeks.org/object-oriented-programming-in-cpp/#:~:text=C%2B%2B	https://www.geeksforgeeks.org/message-passing-in-java/	https://www.youtube.com/watch?v=F48O1ufDN3I
Important Keywords		13. Static Keyword	https://www.tutorialspoint.com/static-keyword-in-cplusplus#:~:text=When%20static%20k	https://www.javatpoint.com/static-keyword-in-java	
		14. Virtual Keyword	https://www.geeksforgeeks.org/virtual-function-cpp/	https://www.javatpoint.com/virtual-function-in-java#:~:text=The%20virtual%20keyword%20is%20not,using%20the%20same%20function%20name.	
		15. This Keyword	https://www.geeksforgeeks.org/this-pointer-in-c/	https://www.javatpoint.com/this-keyword	
		16. New Keyword	https://www.geeksforgeeks.org/new-vs-operator-new-in-cpp/	https://www.javatpoint.com/new-keyword-in-java#:~:text=The%20Java%20new%20keyword%20is,to%20create%20the%20array%20object.	
		17. Const Keyword	https://www.geeksforgeeks.org/const-keyword-in-cpp/	https://www.quora.com/Is-a-const-keyword-still-used-in-Java-or-not	
		18. Final Keyword	https://stackoverflow.com/questions/8824587/what-is-the-purpose-of-the-final-keyword-i	https://www.javatpoint.com/final-keyword	
		19. Super Keyword	C++ does not have super keyword	https://www.javatpoint.com/super-keyword	
		20. Abstract Keyword	No, C++ has no keyword abstract. However, you can write pure virtual functions; that's th	https://www.geeksforgeeks.org/abstract-keyword-in-java/	
		21. Explicit Keyword	https://www.geeksforgeeks.org/use-of-explicit-keyword-in-cpp/		

Interview	Majorly Asked Questions	What is Deadly Diamond of Death?	https://www.javatpoint.com/what-is-diamond-problem-in-java	
		What are some other programming paradigms other than OOPs?	https://www.geeksforgeeks.org/introduction-of-programming-paradigms/	
		Are there any limitations of Inheritance?	https://practice.geeksforgeeks.org/problems/what-are-advantages-and-disadvantages-of-using-inheritance	
		What is meant by exception handling?	C++: https://www.geeksforgeeks.org/exception-handling-c/	
			Java: https://www.geeksforgeeks.org/exceptions-in-java/	
		What is meant by Garbage Collection in OOPs world?	https://www.interviewbit.com/oops-interview-questions/	
		Can we run a Java application without implementing the OOPs concept?	https://www.interviewbit.com/oops-interview-questions/	
		Explain Constructor and Destructor?	https://www.scaler.com/topics/constructor-and-destructor-in-cpp/	
		What are abstract classes? What are the distinct characteristics of an abstract class?	https://practice.geeksforgeeks.org/problems/what-are-abstract-classes-what-are-the-distinct-characteristics-of-an-abstract-class	
		How is method overriding different from method overloading?	https://www.geeksforgeeks.org/difference-between-method-overloading-and-method-overriding-in-python/#:~:text=1.,same%20name%20and%20same%20signatures.	
		What are Singleton classes?	C++ : https://www.tutorialspoint.com/Explain-Cplusplus-Singleton-design-pattern	
			Java: https://www.geeksforgeeks.org/singleton-class-java/	
		What are Smart Pointers?	https://www.geeksforgeeks.org/smart-pointers-cpp/	
		What are Friend Funtions and Friend Classes?	https://www.geeksforgeeks.org/friend-class-function-cpp/	
		What are Inline Functions?	https://www.educative.io/edpresso/what-is-a-cpp-inline-function	
		What do you mean by persistent and non persistent objects?	https://stackoverflow.com/questions/35476384/difference-between-persistent-and-non-persistent-data	
		What are virtual functions and what is its use?	C++: https://www.geeksforgeeks.org/virtual-function-cpp/	
			Java: https://www.javatpoint.com/virtual-function-in-java#:~:text=The%20virtual%20keyword%20is%20not,using%20the%20same%20function%20name.	
		When you should use virtual inheritance?	https://www.sandordargo.com/blog/2020/12/23/virtual-inheritance	
		Are there inline functions in Java?	https://www.tutorialspoint.com/Are-there-inline-functions-in-Java#:~:text=If%20a%20function%20is%20inline,is%20called%20at%20compile%20time.	

Quiz Time

https://www.geeksforgeeks.org/oop-concepts-gq/
https://www.indiabix.com/cpp-programming/oops-concepts/
https://www.interviewbit.com/oops-mcq/
https://www.sanfoundry.com/1000-object-oriented-programming-oops-questions-answers/
https://www.javatpoint.com/oops-mcq
https://www.onlineinterviewquestions.com/oops-mcq/
https://www.interviewmocks.com/oops-mcq/
https://engineeringinterviewquestions.com/mcqs-on-concepts-of-oops-answers/
https://myandroid.site/object-oriented-programming-mcq/
https://letsfindcourse.com/technical-questions/cplusplus/oops-01