CO225: Software Construction
Tutorial 1

Answer the following questions. These are typical questions asked during interviews.

1. What are the OOP principles?

2. What is a class? What is the difference between a class and an object?

3. Explain the difference between final and finally keyword.

4. What does the static keyword mean in Java?

5. Explain the difference between interface and abstract class. Give two examples of where you would use an abstract class and interface.

6. What are the two types in Polymorphism? (was not discussed in lectures. Search)

7. What is multi threading? Why is the use of it?

8. What are the two types in thread creation? Why there are two types there?

9. Is multiple inheritance allowed in Java? What are the difficulties in multiple inheritance?

10. What is overloading and what are the advantages of overloading?

11. How many constructors can be there for a single class?

12. How to call a method in a base class without creating an instance of that class?

13. Given 3 classes, A, B, C and *methodA()* and *methodB()* in classes A and B respectively, how can you make sure that these 2 methods are available for use in class C?

14. Explain the advantages of encapsulation.

15. What is the difference between *public class* and *public final class*?