How to create a clone of an object using copy constructor:

https://www.baeldung.com/java-copy-constructor#:~:text=A%20copy%20constructor%20in%20a,copy%20of%2

How to create a clone of an object using clone method: 1. Highlights the problem with shallow copy: https://www.geeksforgeeks.org/clone-method-in-java-2/#:~:text=public%20class%20Main%20%7B,300%2040%0A100%2020%20300%2040

1. Shallow copy is the method of copying an object and is followed by default in cloning.
2. In this method, the fields of an old object X are copied to the new object Y.
3. While copying the object type field the reference is copied to Y i.e object Y will point to the same location as pointed out by X.
4. If the field value is a primitive type it copies the value of the primitive type.

Point 3 presents the problem with shallow copying; Any changes made to such a copy will reflect in all other objects that were cloned which in most cases is not what we want Thus we create a deep copy Source: https://www.geeksforgeeks.org/clone-method-in-java-2/#:~:text=Creating%20a%20copy%20using%20the,class%2