**Sakuna**

1. **Why is String not preferred to store password? What should we use instead?**
2. The main reason for not using String to store passwords is that Strings are immutable meaning we cannot change them using any high-level APIs. Any change in String object will always produce a new String, keeping the old one in memory. Therefore password stored as a plain text will be available in memory until Garbage collectors clear it. We cannot control when it happens, but this can significantly take for Strings compared to other objects, since String are kept in a special memory called String pool for re-usability purpose. Consequently anyone with access to the memory dump can easily retrieve the password from memory easily and consequently pose a security threat
3. But with a char [] array instead of the String, we can explicitly wipe data after we finish with intended work. This way we can ensure that password is removed from memory even before garbage collectors takes place.