ASE CHEAT SHEET

1/ Seven tips for clean code:

- 1. Use proper naming convention.
- 2. Write short functions that only do one thing.
- **3.** Write good documentation.
- 4. Be Consistent.
- 5. Encapsulation + Modularization.
- 6. Follow Sandi Metz's Rules.
- **7.** Follow DRY Principle.

5/ Pass value through activity:

Send:

intent.putExtra("key", "value")

Receive:

var data =
intent.getStringExtra("key")

8/ Encryption-decryption library:

com.scottyab.aescrypt.AESCrypt

9/ Generate random string:

```
private fun getRandomString(length: Int) : String {
    val charset =
"ABCDEFGHIJKLMNOPQRSTUVWXTZabcdefghiklmnopqrstuvwxyz0123456789"
    return (1..length)
        .map { charset.random() }
        .joinToString("")
}
```

2/ Sandi Metz's Rules:

- 1. Classes can be no longer than 100 lines of code.
- 2. Methods can be no longer than 5 lines of code.
- **3.** Pass no more than 4 parameters into a method.
- 4. Controllers can instantiate only one object.

4/ DRY: Don't Repeat Yourself:

It states that every piece of knowledge must have a single, unambiguous, authori-tative representation within a system (codebase).

6/ Four phases of scrum:

- 1. Backloc
- 2. Sprint
- 3. Scrum meeting
- 1. Demos

projects because of involved risks and high effort.

5. Needless Repetition.

4. Needless Complexity.

single change.

3/ Code smells:

6. Opacity: The code is hard to understand.

1. Rigidity: The software is difficult to change

2. Fragility: The software breaks in many places due to a

3. Immobility: You cannot reuse parts of the code in other

7/ Data class:

```
// A data class is a structured data container
data class Student(val name: String, var year: Int)
// name is a read-only property, year is mutable
val newStudent = Student( name: "Rahat", year: 1)
// Data class with properties outside the constructor
data class Professor(val name: String) {
    var isTenured: Boolean = false
}
```

10/ Sealed Classes:

```
// can make multiple instances
sealed class Shape {
    class Circle(val radius: Int): Shape()
    class Square(val sideLength: Int): Shape()
}
val circle1 = Shape.Circle( radius: 3)
val circle2 = Shape.Circle( radius: 42)
val square = Shape.Square( sideLength: 5)
```