Java Features for the Project

Basic Features

Each group is expected to implement support for the following language features.

- Primitive data types (for e.g., int, long, float, double, and boolean)
- Multidimensional (say max 3D) arrays
- Basic operators (for e.g., %, ++, !=, and >>>)
 - https://www.tutorialspoint.com/java/java_basic_operators.htm
 - Arithmetic operators (+, -, *, /, %, ++, --)
 - Both preincrement, predecrement, postincrement, and postdecrement
 - Relational operators (==, !=, >, <, >=, <=)
 - Bitwise operators (&, |, ^, ~, <<, >>, >>>)
 - Logical operators (&&, ||, !)
 - Assignment operators (=, +=, -=, *=, /=, &=)
 - Miscellaneous operators (for e.g., ternary)
- Control flow (if-else, for and while)
 - Ignore constructs like do-while and switch
- Functions and function calls
- Recursion
- Basic library functions (for e.g., println())
- Support for classes, and objects
 - public and private access modifiers, ignore default and protected

Optional Features

- Support for Interfaces
- · Static polymorphism via method overloading
- · Dynamic polymorphism via method overriding
- Type casting
- Generics
- Any other features that you want to support

Bonus marks will be associated for correctly implementing optional features.