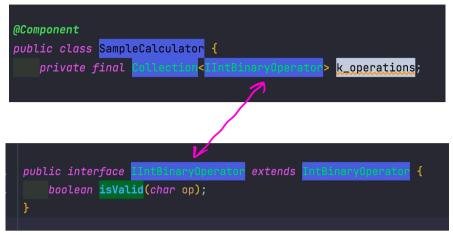
an introduction to Spring boot and the power of weak communication

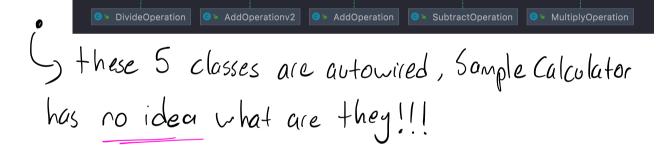
· Operation

Collection injection
 (if can be a map, list etc.)

· all classes that implements this interface



will be automatically placed in the collection and take up "size"



· let's look one of them, a simple 2 step process

```
@Component

public class MultiplyOperation implements CombineryOperator {

@Override

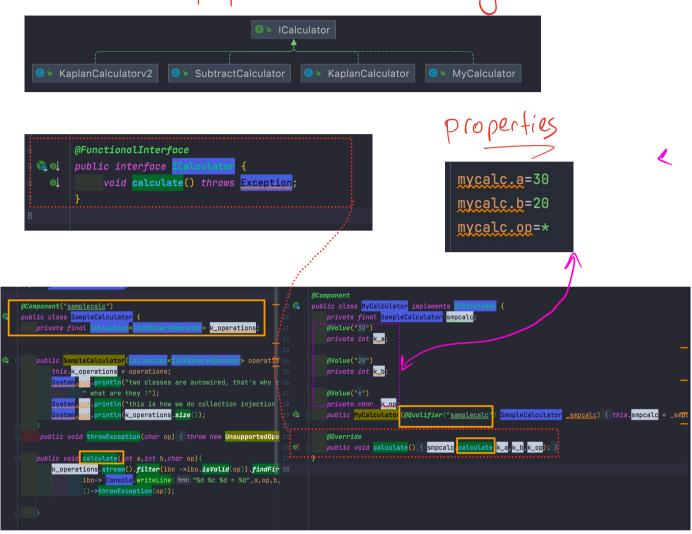
public boolean isValid(char op) { return op =='*'; }

@Override

public int applyAsInt(int left, int right) { return left*right; }

}
```

· Calculation, properties and Configuration



→ a singleton Sample Calculator obj is created

→ vio dependency injection I is called by My Calculator

→ according to the "I Calculator" contract we call

"calculate" clause

→ multiply Operation is in collection injection and match

with the k-op taken from properties file!

or in this overided method we use desired method of the reference obtained with dependency injection, using the parameters given by "properties" file.

Configure My Calculator class

```
@Configuration
public class MyCalcConfig {
    //doesn't need to know sample calculator!
    private final MyCalculator k_mycalc;

public MyCalcConfig(MyCalculator mycalc) { this.k_mycalc = _mycalc; }
    @Bean("minecalculator")
    public ApplicationRunner runCalculator() { return args -> k_mycalc.calculate(); }
}
```

and run via App Runner.

for substraction below

Divide Runner and see the power of | Calculator |



I can return everything and use in runner that implements | Calculator | help of depending in)

and this is the power this runner doesn't know of wear 1 uncoupled = what type of calculation communication! will be executed