-by RAGHU SIR, Naresh IT

Spring Boot : Working with Application Runner

=>ApplicationRunner (new Runner)

=>Functional Interface (one abstract method) Spring Boot 1.3

=> method run(), param: ApplicationArguments

=> Functionality is same as CLR(String... args)

Q) What is the difference b/w CLR and AR?

A) Both are same in functionally. Diff. comes at input only

CLR -> stores input as String...[String array] AR -> stores input as ApplicationArgs

[Opt Args/NonOptArgs]

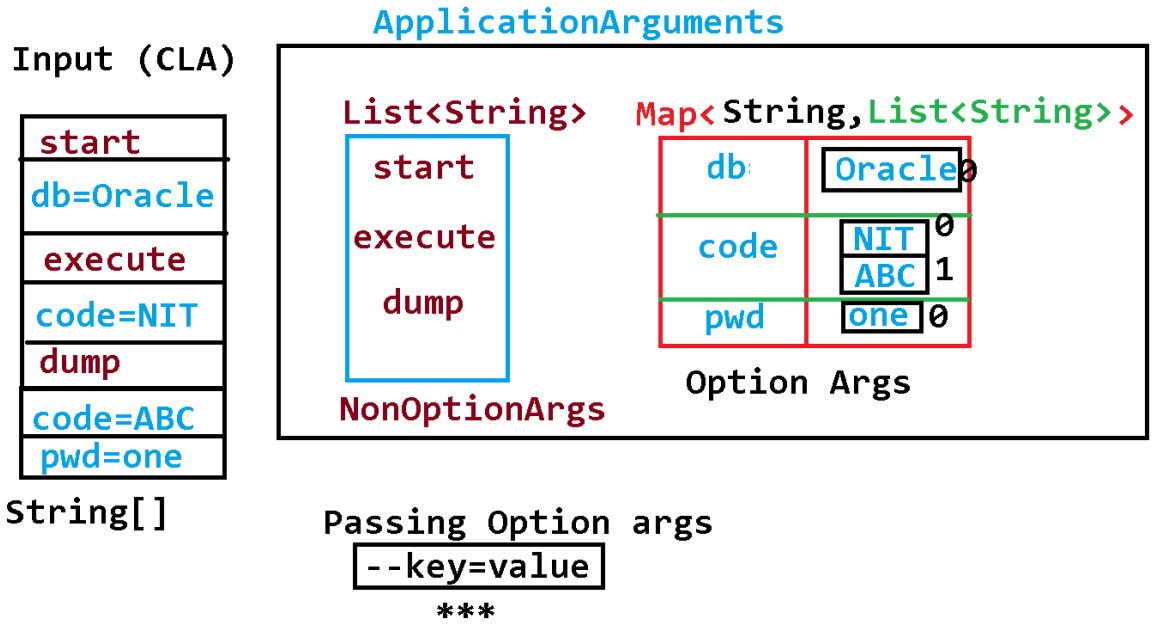
Q) When should we use CLR and AR?

A) If work is done based on inputs(args) db=XYZ => the do some task

export=PDF => then do some task choose AR Inputs are not much used (just do task) connect to DB with inputs (driver/url/un/pwd) CLR.

=> CLR (95%) is faster -> AR

=> AR is better at inputs (5%)



Ex#1

```
package in.nit.runner;

import java.util.Arrays;
import java.util.List;
import java.util.Set;

import org.springframework.boot.ApplicationArguments;
import org.springframework.boot.ApplicationRunner;
import org.springframework.stereotype.Component;

@Component
public class MyDataRunner
    implements ApplicationRunner
{

    @Override
    public void run(ApplicationArguments args)
            throws Exception {

        System.out.println("welcome to Runner");
        //1. print all inputs (CL-Args)
        String[] input=args.getSourceArgs();
        //String Arry to List<String>
```

```
		System.out.println(Arrays.asList(input));

		//2. read non-option args
		List<String> strs=args.getNonOptionArgs();
		System.out.println(strs);

		//3. read one option values
		List<String> l1=args.getOptionValues("db");
		System.out.println(l1);
		//-----------------------------
		List<String> l2=args.getOptionValues("code");
		System.out.println(l2);

		//4. read option args keys only
		Set<String> keys=args.getOptionNames();
		System.out.println(keys);


		//5. check key exist or not?
		boolean flag=args.containsOption("db");
		System.out.println(flag);
		boolean flag1=args.containsOption("mode");
		System.out.println(flag1);









	}


}
```

Ex#2

```
package in.nit.runner;

import java.util.List;

import org.springframework.boot.ApplicationArguments;
import org.springframework.boot.ApplicationRunner;
import org.springframework.stereotype.Component;
```

```
//export=PDF -> PDF Format
//export=Excel -> Excel Format
//both -> 2 files PDF,Excel
//nothing =>No export
@Component
public class MyExportServiceRunner
	implements ApplicationRunner
{

	@Override
	public void run(ApplicationArguments args) throws Exception {
		boolean exist=args.containsOption("export");

		if(exist) {
			List<String> export=args.getOptionValues("export");

			if(export.contains("PDF") && export.contains("EXCEL"))
{
				System.out.println("BOTH ARE GENERATED");
			}else if(export.contains("PDF")) {
				System.out.println("PDF GENERATED");
			}else if(export.contains("EXCEL")) {
				System.out.println("EXCEL GENERATED");
			}else {
				System.out.println("Matching Export Not
Found!!");
			}

		}else {
			System.out.println("No export specified!!");
		}

	}
}
```