Date: 18/12/2020 Spring Boot 9AM Mr. RAGHU

Docs: (Adv Java, Hibernate, Spring , Spring boot, tools, webservices) https://www.mediafire.com/file/w5x9w5vcmkwkkdv/RaghuSirNareshITJavaPdfs.zip/file

YAML (.yml)

*) If we write both properties and yaml files, then highest priority is properties

ie if any key is present in both properties and yml file then Spring container reads properties data as final.

--application.properties---

my.app.id=10

--application.yml--

my:

app:

id: 99

@Value("\${my.app.id}") ---> 10

XML --> JSON

Properties --> YAML

https://www.google.com/search?q=spring+boot+2.4.1 https://github.com/spring-projects/spring-boot/releases/tag/v2.4.1

*) Note: After Spring Boot 2.4 version, priority order is changed.

1st priority is --YAML

2nd priority is -- Properties

application.yml

application.properties

YAML Programming -- Configuration Properties

- *) Note: When we add @ConfigurationProperties to our code, it might be showing Warning (Yellow color underline).
- => First define variables
- => Generate set/get method
- => Gerente toString
- => Add @ConfigurationProperties(prefix="")
- => place mouse over '@ConfigurationProperties' line
- => Click on option 'Add 'spring-boot-configuration-process' to

```
pom.xml'
=> Now goto application.properties/application.yml
   then press 'ctrl+space', now you can see all suggested keys.
--code-----
#1 Create Spring Boot Starter Project
Name : SpringBoot2YamlExOne
Package: in.nareshit.raghu
#2. Runner class
package in.nareshit.raghu.runner;
import org.springframework.boot.CommandLineRunner;
import
org.springframework.boot.context.properties.ConfigurationProperties;
import org.springframework.stereotype.Component;
@Component
@ConfigurationProperties(prefix = "my.app")
public class MyDataRunner implements CommandLineRunner {
        private Integer id;
        private String code;
        private Double cost;
        @Override
        public void run(String... args) throws Exception {
                System.out.println(this);
        public Integer getId() {
                return id;
        }
        public void setId(Integer id) {
                this.id = id;
        }
        public String getCode() {
                return code;
        }
        public void setCode(String code) {
                this.code = code;
        }
        public Double getCost() {
                return cost;
        public void setCost(Double cost) {
               this.cost = cost;
        }
        @Override
        public String toString() {
                return "MyDataRunner [id=" + id + ", code=" + code +
```

```
", cost=" + cost + "]";
}
#3. application.yml
my:
 app:
   id: 88
   code: AA
   cost: 9.9
#4. Open starter class and run(ctrl+F11)
_____
Output: MyDataRunner [id=88, code=AA, cost=9.9]
YAML with List/Set/Array and Map
S#1 New Spring Starter Project
Name : SpringBoot2YamlConfigPropsCollEx
Package : in.nareshit.raghu
S#2 Runner class
package in.nareshit.raghu;
import java.util.Arrays;
import java.util.Map;
import org.springframework.boot.CommandLineRunner;
import
org.springframework.boot.context.properties.ConfigurationProperties;
import org.springframework.stereotype.Component;
//ctrl+shift+0
@Component
@ConfigurationProperties(prefix = "my.app")
public class MyCollDataReader implements CommandLineRunner {
       //private List<String> models;
       private String[] models;
       private Map<String,Integer> grades;
       @Override
       public void run(String... args) throws Exception {
              System.out.println(this);
       }
       public String[] getModels() {
              return models;
       }
```

```
public void setModels(String[] models) {
               this.models = models;
       }
       public Map<String, Integer> getGrades() {
               return grades;
       public void setGrades(Map<String, Integer> grades) {
               this.grades = grades;
       @Override
       public String toString() {
               return "MyCollDataReader [models=" +
Arrays.toString(models) + ", grades=" + grades + "]";
}
S#3 application.yml
my:
 app:
   models:
   - AA
   - BB
   - CC
   grades:
     A: 1
     B: 2
     C: 3
Output: MyCollDataReader [models=[AA, BB, CC], grades={A=1, B=2, C=3}]
______
YAML using HAS-A Relation : using class as a DataType
S#1 Create Spring Starter Project
Name : SpringBoot2YamlConfigPropsHasAEx
Package: in.nareshit.raghu
S#2 Model
package in.nareshit.raghu.model;
public class Student {
       private Integer sid;
       private String sname;
       private Double sfee;
       public Integer getSid() {
               return sid;
       }
```

```
public void setSid(Integer sid) {
                this.sid = sid;
        public String getSname() {
                return sname;
        public void setSname(String sname) {
                this.sname = sname;
        public Double getSfee() {
                return sfee;
        public void setSfee(Double sfee) {
                this.sfee = sfee;
        }
        @Override
        public String toString() {
                return "Student [sid=" + sid + ", sname=" + sname + ",
sfee=" + sfee + "]";
        }
}
S#3 Runner class
package in.nareshit.raghu.runner;
import org.springframework.boot.CommandLineRunner;
import
org.springframework.boot.context.properties.ConfigurationProperties;
import org.springframework.stereotype.Component;
import in.nareshit.raghu.model.Student;
//ctrl+shift+0
@Component
@ConfigurationProperties(prefix = "my.app")
public class HasADataRunner implements CommandLineRunner {
        private Student sob; //HAS-A
        @Override
        public void run(String... args) throws Exception {
                System.out.println(sob);
        }
        public Student getSob() {
                return sob;
        public void setSob(Student sob) {
                this.sob = sob;
        }
```

}

- Q) Why @Component and @Autowired are not required for Student class in above example?
- A) When we are using data loading from properties/yml using @ConfigurationProperties , it is taken care by Spring boot.