Date: 17/12/2020 Spring Boot 9AM Mr. RAGHU YAML ( \_\_.yml )

- \*) YAML YAMalian Language.
- \*) This is a file (like Text Format) which stores data in key=val format (without any duplicate words/levels).
- \*) But, Still Java supports key-val pairs input using ' .properties'.
- \*) YAML is a new Format of writing Properties.
- \*) YAML File internally converted into Properties(C) format only using API : Snake YAML.

----Note-----

\*) Level in Key = Symbol dot(.) in keys creates a new/next level ex: my.app.code=A

Her my - 1st level in key, app-2nd level in key, code-3rd level in key

\*) In realtime we use keys which may have more duplicate levels.

---application.properties-----

spring.datasource.driver-class-name=OracleDriver

spring.datasource.url=jdbc:oracle

spring.datasource.username=system

spring.datasource.password=abc

--application.yml---

spring:

datasource:

driver-class-name: OracleDriver

url: jdbc:oracle username: system password: abc

-----

===============================RULES TO WRITE YAML FILE

1. Replace dot(.) and equals(=) with colon(:)

.properties

my.app.id=10

my.app.code=A

.yml

my:app:id:10

my:app:code:A

2. After colon , move next level/word to next line [Do not write duplicates]

\_\_\_.yml

```
app:
id:10
code:A
3. Before every new level(not 1st level) provide spaces (at least one)
   [Space count must match for same level]
__.yml
 my:
   app:
       id:10
       code:A
4. Finally for value, give exactly one space (between last level and
data)
___.yml
        (final yaml output)
  my:
   app:
       id: 10
                //one space only between last level and value.
       code: A
1. Replace dot(.) and equals(=) with colon(:)
2. new next level/word goto to next line
   [Do not write duplicates]
3. at least one space / Space count must match for same level
4. after last level and value, give one space
** tab space also valid.
Ex#1.
--application.properties---
my.app.code=A
my.app.model=B
my.grade.service=new
my.grade.cost=600
---application.yml----
my:
  app:
     code: A
     model: B
  grade:
     service: new
     cost: 600
Ex#2
--application.properties---
spring.jpa.show-sql=true
spring.jpa.ddl-auto=create
spring.hikari.size=20
spring.hikari.name=hrk
---application.yml---
```

my:

```
spring:
 jpa:
   show-sql: true
   ddl-auto: create
 hikari:
   size: 20
   name: hrk
_____
Ex#3
---application.properties---
spring.jpa.hibernate.auto-create=true
spring.jpa.show-sql=true
spring.jpa.hibernate.format.export=new
spring.jpa.model=entity
spring.jpa.grade.code=accept
---application.yml----
spring:
   jpa:
    hibernate:
      auto-create: true
      format:
        export: new
     show-sql: true
    model: entity
    grade:
      code: accept
-----
Ex#4
---application.proprties---
my.grade.mode=A
spring.format.text=one
my.accept.mode=new
spring.jpa.show=true
my.grade.state=SA
spring.format.active=true
spring.jpa.final=mode
---application.yml----
my:
 grade:
   mode: A
   state: SA
  accept:
   mode: new
spring:
  format:
   text: one
   active: true
  jpa:
   show: true
   final: mode
```

```
*) if we do not follow proper rules to write .yml file
 then SnakeYAML API throws data parsing exception like
org.yaml.snakeyaml.scanner.ScannerException:
  mapping values are not allowed here
*) duplicate keys are not allowed in YAML
org.yaml.snakeyaml.constructor.DuplicateKeyException: while
constructing a mapping
-----code-----
#1 Create Spring Boot Starter Project
Name : SpringBoot2YamlExp
#2. create YAML file under src/main/resource folder
> Right click on 'src/main/resource' folder
> new > file > enter name 'application.yml'
#3. Provide data
--application.yml--
my:
 app:
  id: 9999
  name: YAML DATA
  cost: 9898.3
-----
#4. Runner class
package in.nareshit.raghu;
import org.springframework.beans.factory.annotation.Value;
import org.springframework.boot.CommandLineRunner;
import org.springframework.stereotype.Component;
@Component
public class DataReadRunner implements CommandLineRunner {
        @Value("${my.app.id}")
        private Integer pid;
        @Value("${my.app.name}")
        private String pname;
        @Value("${my.app.cost}")
        private Double pcost;
        public void run(String... args) throws Exception {
               System.out.println(this);
        }
        public String toString() {
               return "DataReadRunner [pid=" + pid + ", pname=" +
pname + ", pcost=" + pcost + "]";
}
```