@ConditionalOnProperty:

Bean is created Conditionally (mean Bean can be created or Not).

We have already know the behavior of below program:

```
plic class DBConnection {
                                                                                              ublic class NoSQLConnection {
                                                                                                 NoSOLConnection() {
 @Autowired
MySQLConnection mySQLConnection;
                                                                                                     System.out.println("initialization of NoSQLConnection Bean");
 NoSQLConnection noSQLConnection;
 #PostConstruct
public void init(){
   System.out.println("BE Connection Bean Created with dependencies below:");
   System.out.println("is MySQLConnection object Null: " + Objects.isMull(mySQLConnection));
   System.out.println("is MySQLConnection object Null: " + Objects.isMull(noSQLConnection));
}
                                                                                                 MySQLConnection(){
                                                                                                     System.out.println("initialization of MySQLConnection Bean");
    2024-05-25T10:55:57.207+05:30 INFO 6700 --- [
                                                                                        main] w.s.c.ServletWebServerApplicationContext
     initialization of MySQLConnection Bean
     initialization of NoSQLConnection Bean
     DB Connection Bean Created with dependencies below:
     is MySQLConnection object Null: false
     is NoSQLConnection object Null: false
     2024-05-25T10:55:57.381+05:30 INFO 6700 --- [
                                                                                        main] o.s.b.w.embedded.tomcat.TomcatWebServer
     2024-05-25T10:55:57.387+05:30 INFO 6700 --- [
                                                                                        main] c.c.l.SpringbootApplication
```

But how you will handle below Use Cases?

Use case 1:

We want to create only 1 Bean, either MySQLConnection or NoSQLConnection.

Use case 2:

We have 2 components, sharing same codebase, But 1 component need MYSQLConnection and other needs NoSQLConnection

```
Solution is @ConditionalOnProperty Annotation
                                                                                        .nditionalUnProperty(prefix = "sqlconnection", value = "enabled", havingValue = "true", matchIfMissing = false
plic class MySQLConnection {
omponent
blic class DBConnection {
                                                                                                         :
intln("initialization of MvSOLConnection Bean"):
                                                                                                 OnProperty(prefix = "nosqlconnection", value = "enabled", havingValue = "true", matchIfMissing = fals(
NoSqlConnection {
                                                                                                nection() {
                                                                                            System.out.println("initialization of NoSOLConnection Bean");
                                                                                       Application.properties
                                                                                 main] o.a.c.c.C.[Tomcat].[localhost].[/]
         2024-05-25T11:32:03.950+05:30 INFO 8352 ---
          2024-05-25T11:32:03.951+05:30 INFO 8352 --- [
          initialization of MySQLConnection Bean
          DB Connection Bean Created with dependencies below:
         is MySQLConnection object Null: false
         is NoSQLConnection object Null: true
2024-05-25T11:32:04.102+05:30 INFO 8352 --- [
                                                                                 main] o.s.b.w.embedded.tomcat.TomcatWebServer
          2024-05-25T11:32:04.106+05:30 INFO 8352 --- [
                                                                                 main] c.c.l.SpringbootApplication
```

Advantages:

- 1. Toggling of Feature
- 2. Avoid cluttering Application context with un-necessary beans.
- 3. Save Memory
- 4. Reduce application Startup time

<u>Disadvantages:</u>

- 1. Misconfiguration can happen.
- 2. Code Complexity when over used.
- 3. Multiple bean creation with same Configuration, brings confusion.
- 4. Complexity in managing.