Spring boot: @ConditionalOnProperty

```
@ConditionalOnProperty :
    Bean is created Conditionally (mean Bean can be created or Not).
                                  We have already know the behavior of below program:
blic class DBConnection {
                                                                                oublic class NoSQLConnection {
                                                                                   NoSQLConnection() {
 MySOLConnection mySOLConnection:
                                                                                      System.out.println("initialization of NoSQLConnection Bean");
 NoSQLConnection noSQLConnection;
                                                                               public class MySQLConnection {
    System.out.println("DB Connection Bean Created with dependencies below:");
    System.out.println("is MySQLConnection object Null: " + Objects.isMult(mySQLConnection));
System.out.println("is NoSQLConnection object Null: " + Objects.isMult(noSQLConnection));
                                                                                   MvSOLConnection(){
                                                                                      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 {\tt NoSQLConnection} object {\tt 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
                                                                                  ConditionalOnProperty(prefix = "sqlconnection", value = "enabled", havingValue = "true", matchIfMissing = false)
ublic class MySQLConnection {
                                                                                   MySQLConnection(){
                                                                                        System.out.println("initialization of MySQLConnection Bean");
                                                                                                  erty(prefix = "nosqlconnection", value = "enabled", havingValue = "true", matchIfMissing = false)
                                                                                  ublic class NoSQLConnection {
System.out.println("is MySQLConnection object Null: " + Objects.isWull(mySQLConnection));
System.out.println("is NoSQLConnection object Null: " + Objects.isWull(noSQLConnection));
                                                                                        System.out.println("initialization of NoSQLConnection Bean");
                                                                                   Application.properties
                                                                               sqlconnection.enabled=true
     2024-05-25T11:32:03.950+05:30 INFO 8352 --- [
                                                                            main] o.a.c.c.C.[Tomcat].[localhost].[/]
      2024-05-25T11:32:03.951+05:30 INFO 8352 --- [
                                                                            main] w.s.c.ServletWebServerApplicationContext
      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

Disadvantages:

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