

Assignment|BRD_validation

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```
package com.validation.kushmakar;

import java.time.LocalDate;
import java.time.format.DateTimeFormatter;
import java.util.List;

public class Validation {
    public boolean dataTypeValidation(Object fieldValue, String dataType) {
        if (dataType.equals(fieldValue.getClass().getSimpleName())) {
            return true;
        }
        return false;
    }

    public boolean dataLengthValidation(Object value, int maxLength) {
        if (value.toString().length() <= maxLength) {
            return true;
        }
        return false;
    }

    public boolean specialCharacterValidation(String value, String
specialChar) {
        for (int i = 0; i < specialChar.length(); i++) {
            if (value.contains(specialChar.charAt(i) + "")) {
                return true;
            }
        }
        return false;
    }

    public <T> boolean domainValueValidation(Object value, List<T> domain) {
        for (T t:domain) {
            if (value.equals(t)) {
                return true;
            }
        }
        return false;
    }

    public boolean formatValidation(LocalDate value, String format) {
        DateTimeFormatter formatObj = DateTimeFormatter.ofPattern(format);
        String newValue = value.format(formatObj);
        if (newValue.equals(value.toString())) {
            return true;
        }
        return false;
    }

    public boolean validateEmail(String email)
    {
```

```

        if(email.contains("@") && email.contains(".com") && !email.contains("
    ")) {
            return true;
        }
        return false;
    }
}

```

main:

```

package com.validation.kushmakar;

import java.time.LocalDate;
import java.util.ArrayList;
import java.util.List;

public class ValidationMain {
    public static void main(String[] args) {
        int a = 90;

        Validation validation = new Validation();
        System.out.println(validation.dataTypeValidation(a, "Integer"));
        System.out.println(validation.dataLengthValidation(100000, 1));
        System.out.println(validation.specialCharacterValidation("hhhj",
"#"));
        List<Integer> domainList = new ArrayList<>();
        domainList.add(5);
        domainList.add(6);
        domainList.add(7);

        System.out.println(validation.domainValueValidation(7,
domainList));
        System.out.println(LocalDate.now());
        System.out.println(validation.formatValidation(LocalDate.now(),
"YYYY-MM-DD"));
        System.out.println(validation.validateEmail("abc@email.com"));

    }
}

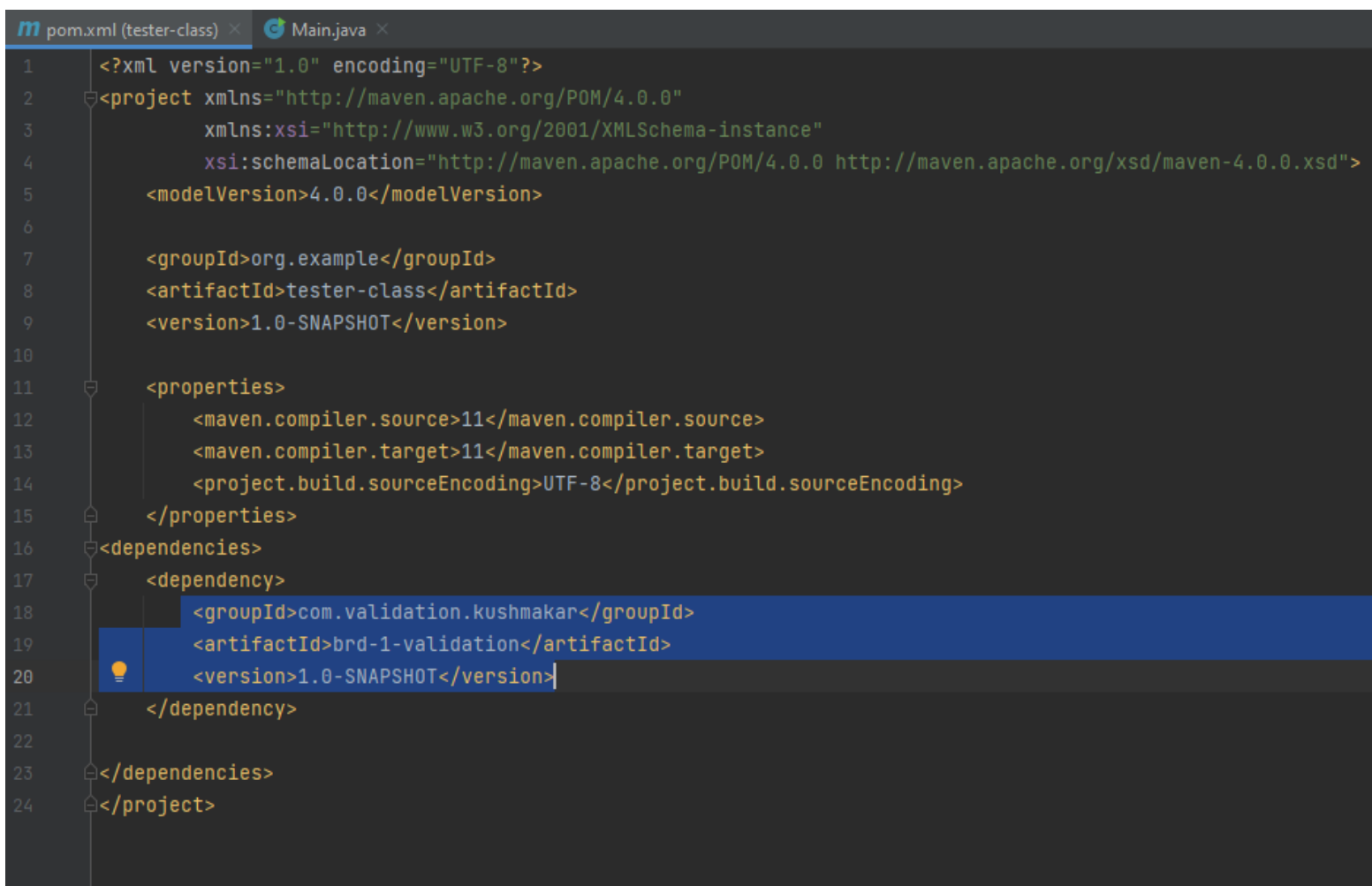
```

OUTPUT

```
true
false
false
true
2023-02-12
false
true

Process finished with exit code 0
```

Created a tester class and Added dependency of Brd-validation in pom.xml and build it.



```
m pom.xml (tester-class) x Main.java x
1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0"
3     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4     xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
5     <modelVersion>4.0.0</modelVersion>
6
7     <groupId>org.example</groupId>
8     <artifactId>tester-class</artifactId>
9     <version>1.0-SNAPSHOT</version>
10
11     <properties>
12         <maven.compiler.source>11</maven.compiler.source>
13         <maven.compiler.target>11</maven.compiler.target>
14         <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
15     </properties>
16     <dependencies>
17         <dependency>
18             <groupId>com.validation.kushmakar</groupId>
19             <artifactId>brd-1-validation</artifactId>
20             <version>1.0-SNAPSHOT</version>
21         </dependency>
22
23     </dependencies>
24 </project>
```

```
File Edit View Navigate Code Refactor Build Run Tools VCS Window Help tester-class - Main.java
tester-class > src > main > java > org > example > Main > main

pom.xml (tester-class) x Main.java x
1 package org.example;
2
3 import com.validation.kushmakar.Validation;
4
5 import java.time.LocalDate;
6 import java.util.ArrayList;
7 import java.util.List;
8
9 public class Main {
10     public static void main(String[] args) {
11
12
13         int a = 90;
14
15         Validation validation = new Validation();
16         System.out.println(validation.dataTypeValidation(a, dataType: "Integer"));
17         System.out.println(validation.dataLengthValidation(value: 100000, maxLength: 1));
18         System.out.println(validation.specialCharacterValidation(value: "hhhj", specialChar: "#"));
19         List<Integer> domainList = new ArrayList<>();
20         domainList.add(5);
21         domainList.add(6);
22         domainList.add(7);
23
24         System.out.println(validation.domainValueValidation(value: 7, domainList));
25         System.out.println(LocalDate.now());
26         System.out.println(validation.formatValidation(LocalDate.now(), format: "YYYY-MM-DD"));
27         System.out.println(validation.validateEmail("abc@email.com"));
```

output(created a tester class in the new project to call the methods).

```
tester-class > src > main > java > org > example > Main
Project
pom.xml (tester-class) x Main.java x
21 domainList.add(6);
22 domainList.add(7);
23
24 System.out.println(validation.domainValueValidation(value: 7, domainList));
25 System.out.println(LocalDate.now());
26 System.out.println(validation.formatValidation(LocalDate.now(), format: "YYYY-MM-DD"));
27 System.out.println(validation.validateEmail("abc@email.com"));
28
29 }
30
31

Run: Main x
"C:\Program Files\Java\jdk-11\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2022.2.3\lib\idea_rt.jar=65417:C:\Program
true
false
false
true
2023-02-12
false
true
Process finished with exit code 0
```