

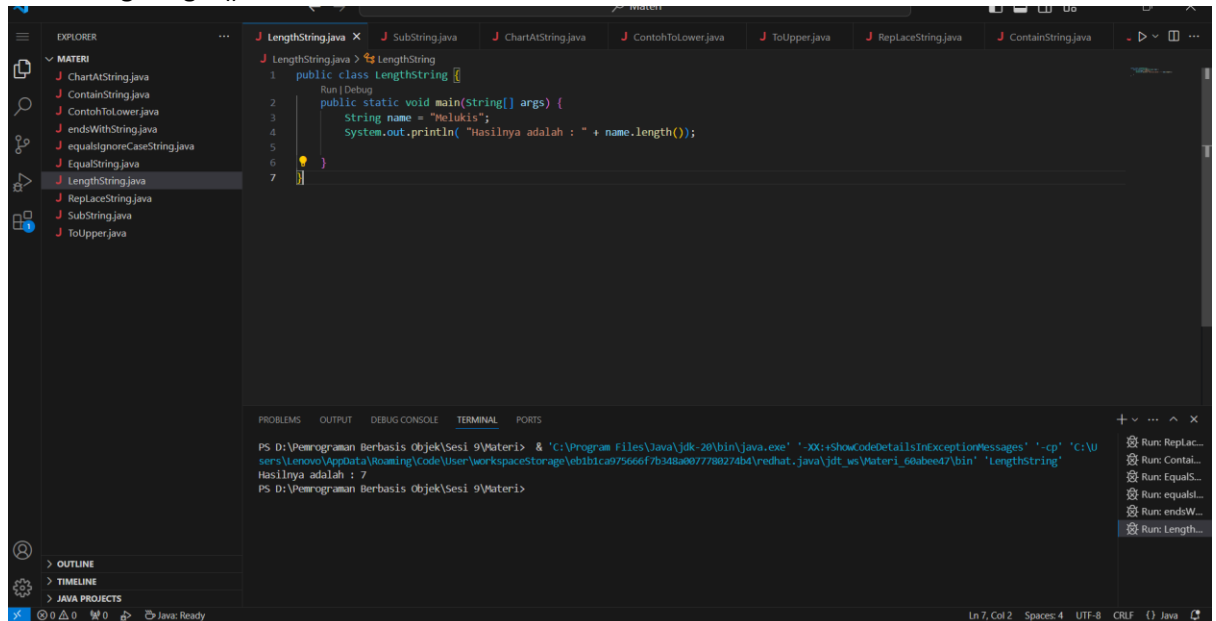
Nama : Siti Marni

NIM : 20220040029

Kelas : TI22C

## PBO SESI 9

### 1. Java String Length()



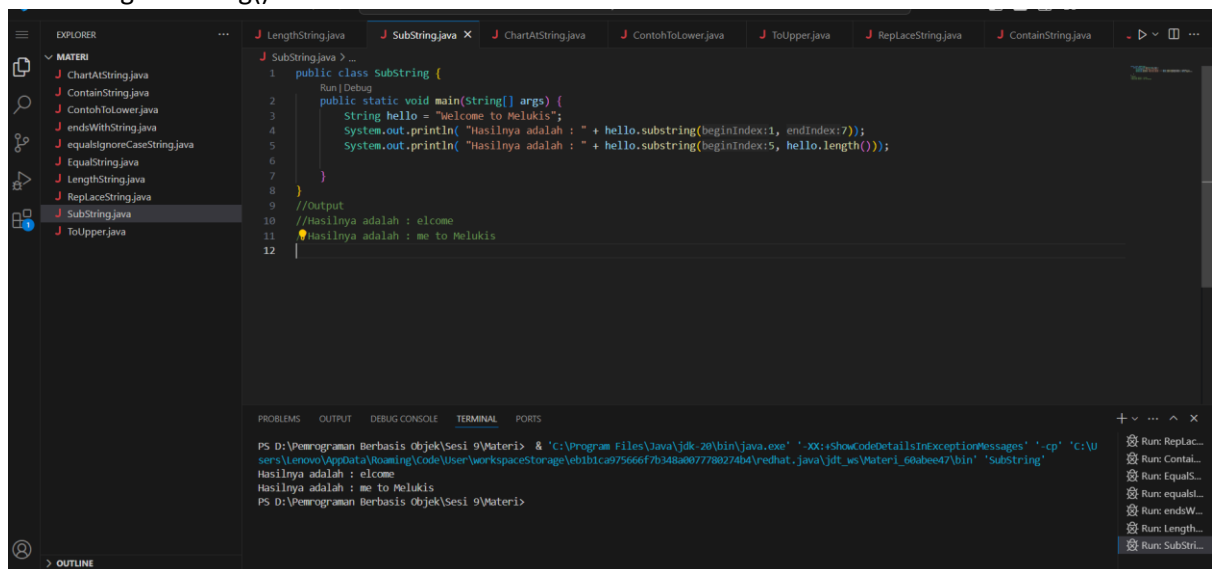
The screenshot shows an IDE with the Explorer panel on the left listing files under 'MATERI'. The main editor displays 'LengthString.java' with the following code:

```
1 public class LengthString {  
2     public static void main(String[] args) {  
3         String name = "Melukis";  
4         System.out.println("Hasilnya adalah : " + name.length());  
5     }  
6 }  
7
```

The bottom panel shows the 'TERMINAL' output:

```
PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Lenovo\AppData\Roaming\Code\User\workspaceStorage\eb1bca975666f7b348a8077780274b4\redhat.java\jdk_ws\Materi_60abee47\bin' 'LengthString'  
Hasilnya adalah : 7  
PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi>
```

### 2. Java String Substring()



The screenshot shows an IDE with the Explorer panel on the left listing files under 'MATERI'. The main editor displays 'SubString.java' with the following code:

```
1 public class SubString {  
2     public static void main(String[] args) {  
3         String hello = "Welcome to Melukis";  
4         System.out.println("Hasilnya adalah : " + hello.substring(beginIndex:1, endIndex:7));  
5         System.out.println("Hasilnya adalah : " + hello.substring(beginIndex:5, hello.length()));  
6     }  
7 }  
8  
9 //Output  
10 Hasilnya adalah : elcome  
11 Hasilnya adalah : me to Melukis  
12
```

The bottom panel shows the 'TERMINAL' output:

```
PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Lenovo\AppData\Roaming\Code\User\workspaceStorage\eb1bca975666f7b348a8077780274b4\redhat.java\jdk_ws\Materi_60abee47\bin' 'SubString'  
Hasilnya adalah : elcome  
Hasilnya adalah : me to Melukis  
PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi>
```

### 3. Java String charAt()

The screenshot shows an IDE with the Explorer panel on the left listing files under 'MATERI'. The main editor displays the code for 'ChartATString.java'. The code defines a class with a main method that takes an array of strings, iterates through them, and prints the character at index 4 of each string. The terminal at the bottom shows the command to run the program and the output: 'Hasilnya adalah huruf: k'.

```
1 public class ChartATString {
2     public static void main(String[] args) {
3         String name = "Melukis";
4         System.out.println("Hasilnya adalah huruf: " + name.charAt(index:4));
5     }
6 }
7
8 //Output:
9 //Hasilnya adalah huruf: k
10
```

Terminal Output:

```
PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Lenovo\AppData\Roaming\Code\User\workspaceStorage\eb1bca975666f7b348a0077780274bd\redhat.java\jdk_ws\Materi_60abee47\bin' 'ChartATString'
Hasilnya adalah huruf: k
PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi>
```

### 4. Java String toLowerCase()

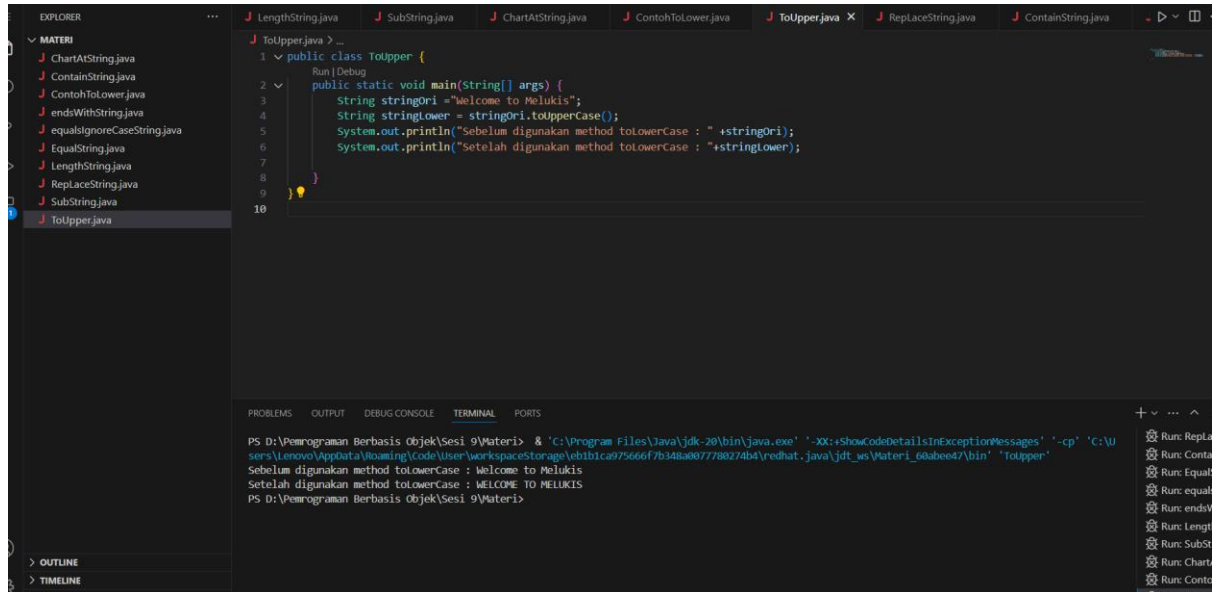
The screenshot shows an IDE with the Explorer panel on the left listing files under 'MATERI'. The main editor displays the code for 'ContohToLower.java'. The code defines a class with a main method that takes an array of strings, iterates through them, and prints the original string and its lowercase version. The terminal at the bottom shows the command to run the program and the output: 'Sebelum digunakan method toLowerCase : welcome to Melukis' and 'Setelah digunakan method toLowerCase : welcome to melukis'.

```
1 public class ContohToLower {
2     public static void main(String[] args) {
3         String stringOri = "welcome to Melukis";
4         String stringLower = stringOri.toLowerCase();
5         System.out.println("Sebelum digunakan method toLowerCase : " + stringOri);
6         System.out.println("Setelah digunakan method toLowerCase : " + stringLower);
7     }
8 }
9
10
```

Terminal Output:

```
PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Lenovo\AppData\Roaming\Code\User\workspaceStorage\eb1bca975666f7b348a0077780274bd\redhat.java\jdk_ws\Materi_60abee47\bin' 'ContohToLower'
Sebelum digunakan method toLowerCase : welcome to Melukis
Setelah digunakan method toLowerCase : welcome to melukis
PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi>
```

## 5. Java String toUpper()



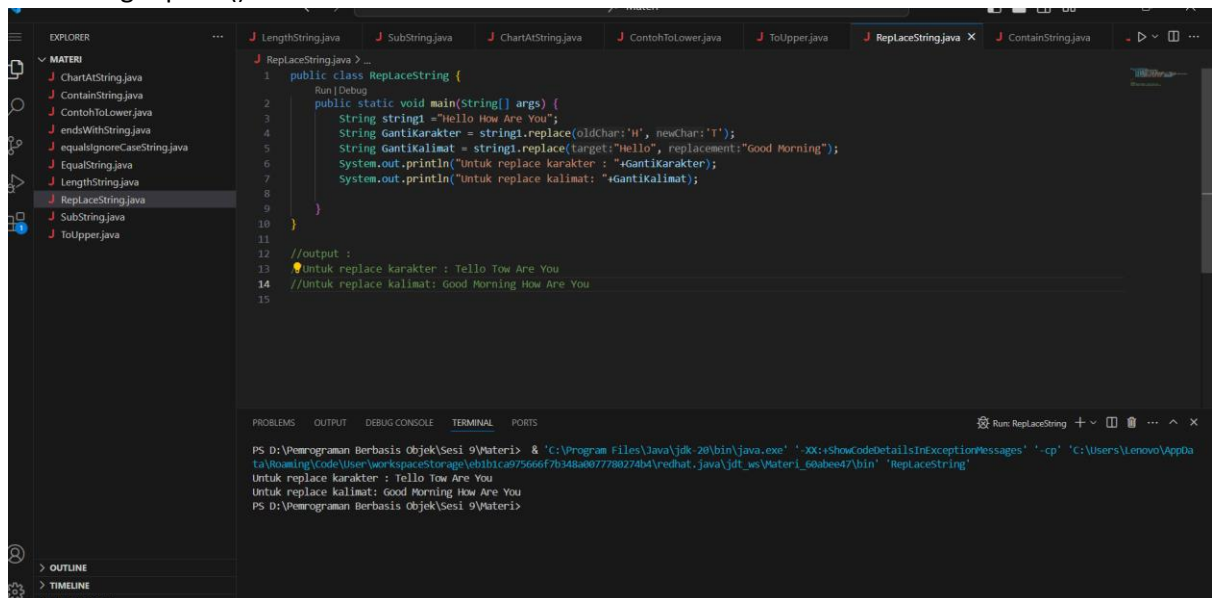
The screenshot shows an IDE with the Explorer panel on the left listing files under 'MATERI'. The main editor displays the code for 'ToUpper.java':

```
1 public class ToUpper {  
2     public static void main(String[] args) {  
3         String stringOri = "Welcome to Melukis";  
4         String stringLower = stringOri.toUpperCase();  
5         System.out.println("Sebelum digunakan method toLowerCase : " + stringOri);  
6         System.out.println("Setelah digunakan method toLowerCase : " + stringLower);  
7     }  
8 }  
9  
10
```

The bottom panel shows the terminal output:

```
PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Lenovo\AppData\Roaming\Code\User\workspaceStorage\eb1bca975666f7b348a0077780274b4\redhat_java\jdt_ws\Materi_60abee47\bin' 'ToUpper'  
Sebelum digunakan method toLowerCase : Welcome to Melukis  
Setelah digunakan method toLowerCase : WELCOME TO MELUKIS  
PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi>
```

## 6. Java String replace()



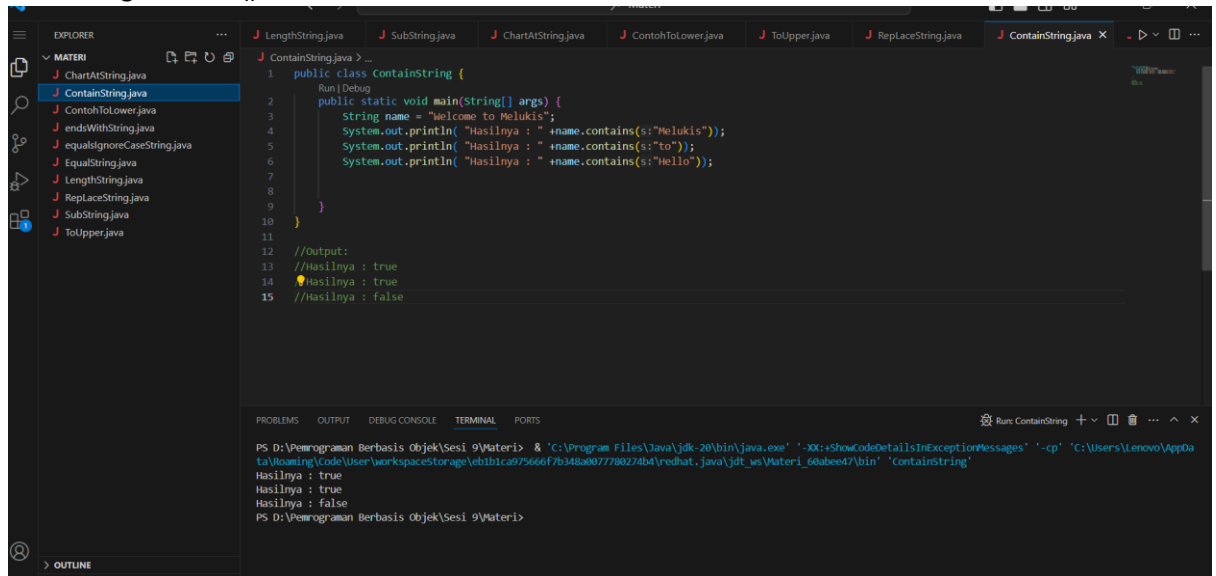
The screenshot shows an IDE with the Explorer panel on the left listing files under 'MATERI'. The main editor displays the code for 'ReplaceString.java':

```
1 public class ReplaceString {  
2     public static void main(String[] args) {  
3         String string1 = "Hello How Are You";  
4         String gantikarakter = string1.replace(oldChar:'h', newChar:'T');  
5         String gantikalimat = string1.replace(target:"hello", replacement:"Good Morning");  
6         System.out.println("Untuk replace karakter : "+gantikarakter);  
7         System.out.println("Untuk replace kalimat : "+gantikalimat);  
8     }  
9 }  
10  
11  
12 //output :  
13 Untuk replace karakter : Tello Tow Are You  
14 Untuk replace kalimat : Good Morning How Are You  
15
```

The bottom panel shows the terminal output:

```
PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Lenovo\AppData\Roaming\Code\User\workspaceStorage\eb1bca975666f7b348a0077780274b4\redhat_java\jdt_ws\Materi_60abee47\bin' 'ReplaceString'  
Untuk replace karakter : Tello Tow Are You  
Untuk replace kalimat : Good Morning How Are You  
PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi>
```

## 7. Java String contains()



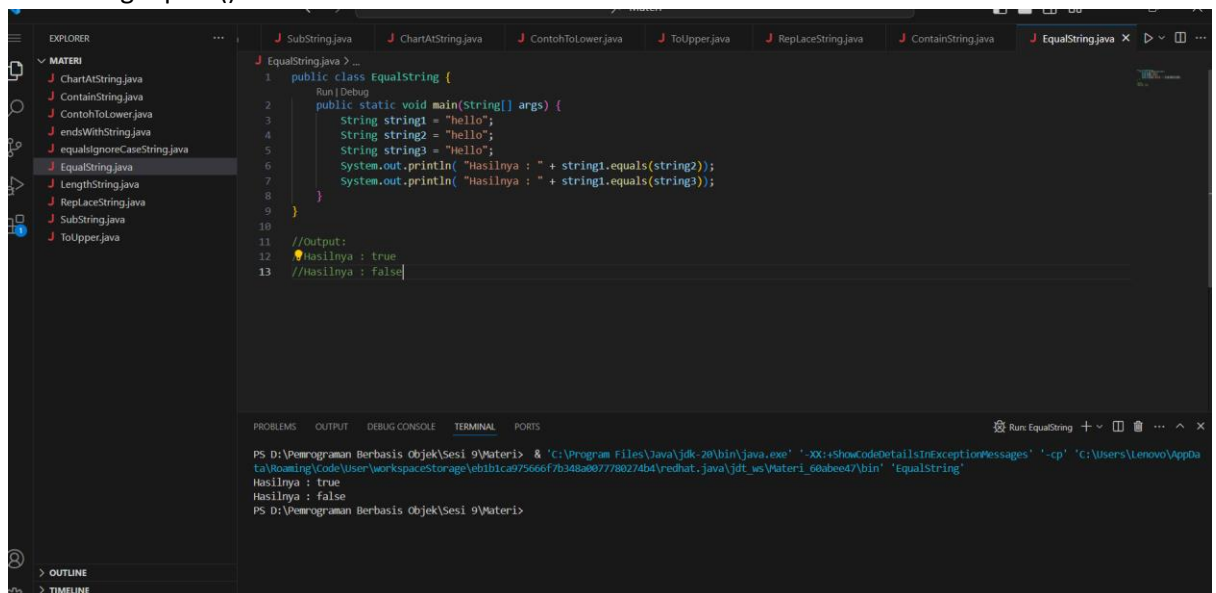
```
1 public class ContainsString {
2     public static void main(String[] args) {
3         String name = "Welcome to Melukis";
4         System.out.println("Hasilnya : " + name.contains(s:"Melukis"));
5         System.out.println("Hasilnya : " + name.contains(s:"to"));
6         System.out.println("Hasilnya : " + name.contains(s:"Hello"));
7     }
8 }
9
10
11
12 //Output:
13 //Hasilnya : true
14 //Hasilnya : true
15 //Hasilnya : false
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Lenovo\AppData\Roaming\Code\User\workspaceStorage\eb1bica97566ef7b348a077780274b4\redhat.java\jdt\_ws\Materi\_60abee47\bin' 'ContainsString'

Hasilnya : true  
Hasilnya : true  
Hasilnya : false  
PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi>

## 8. Java String equals()



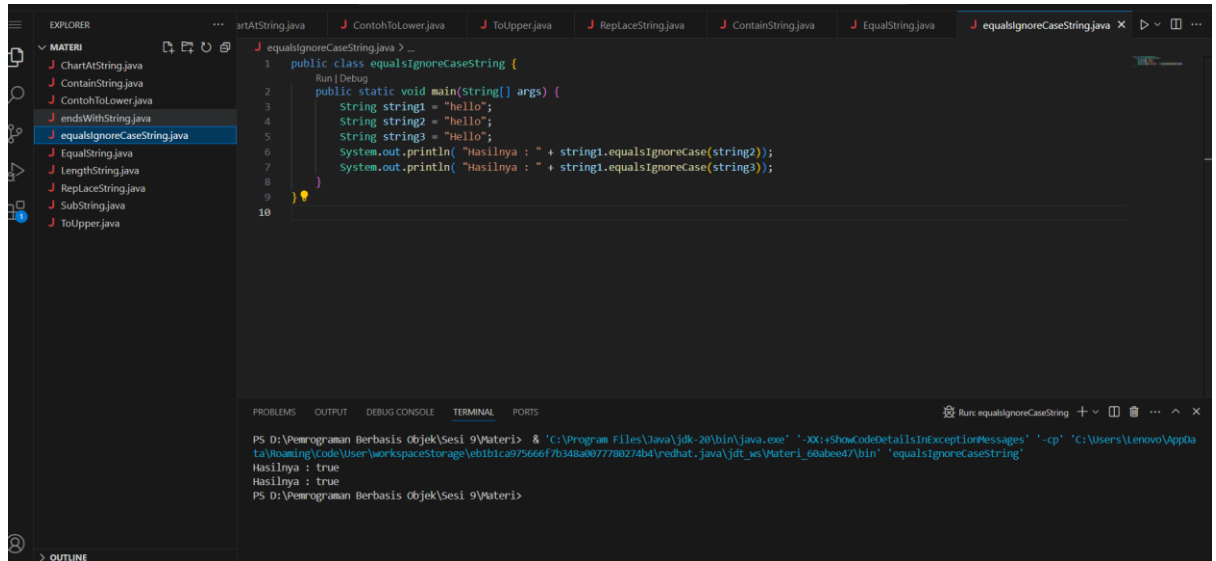
```
1 public class EqualString {
2     public static void main(String[] args) {
3         String string1 = "hallo";
4         String string2 = "hallo";
5         String string3 = "Hello";
6         System.out.println("Hasilnya : " + string1.equals(string2));
7         System.out.println("Hasilnya : " + string1.equals(string3));
8     }
9 }
10
11
12 //Output:
13 //Hasilnya : true
14 //Hasilnya : false
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Lenovo\AppData\Roaming\Code\User\workspaceStorage\eb1bica97566ef7b348a077780274b4\redhat.java\jdt\_ws\Materi\_60abee47\bin' 'EqualString'

Hasilnya : true  
Hasilnya : false  
PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi>

## 9. Java String equalsIgnoreCase()



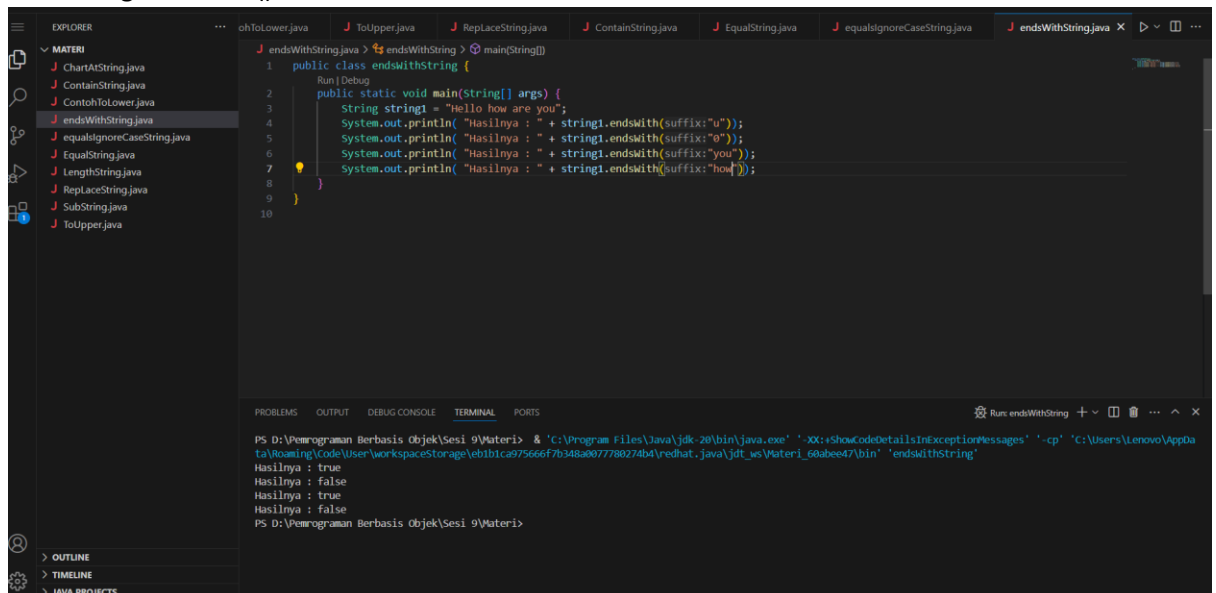
```
1 public class equalsIgnoreCaseString {
2     public static void main(String[] args) {
3         String string1 = "hello";
4         String string2 = "hello";
5         String string3 = "Hello";
6         System.out.println("Hasilnya : " + string1.equalsIgnoreCase(string2));
7         System.out.println("Hasilnya : " + string1.equalsIgnoreCase(string3));
8     }
9 }
10
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Lenovo\AppData\Roaming\Code\User\workspaceStorage\eb1bica975666f7b348a0077780274bd\redhat.java\jdk\_ws\Materi\_60abee47\bin' 'equalsIgnoreCaseString'

Hasilnya : true  
Hasilnya : true  
PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi>

## 10. Java String endsWith()



```
1 public class endsWithString {
2     public static void main(String[] args) {
3         String string1 = "Hello how are you";
4         System.out.println("Hasilnya : " + string1.endsWith(suffix:"u"));
5         System.out.println("Hasilnya : " + string1.endsWith(suffix:"o"));
6         System.out.println("Hasilnya : " + string1.endsWith(suffix:"you"));
7         System.out.println("Hasilnya : " + string1.endsWith(suffix:"how"));
8     }
9 }
10
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Lenovo\AppData\Roaming\Code\User\workspaceStorage\eb1bica975666f7b348a0077780274bd\redhat.java\jdk\_ws\Materi\_60abee47\bin' 'endsWithString'

Hasilnya : true  
Hasilnya : false  
Hasilnya : true  
Hasilnya : false  
PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi>