

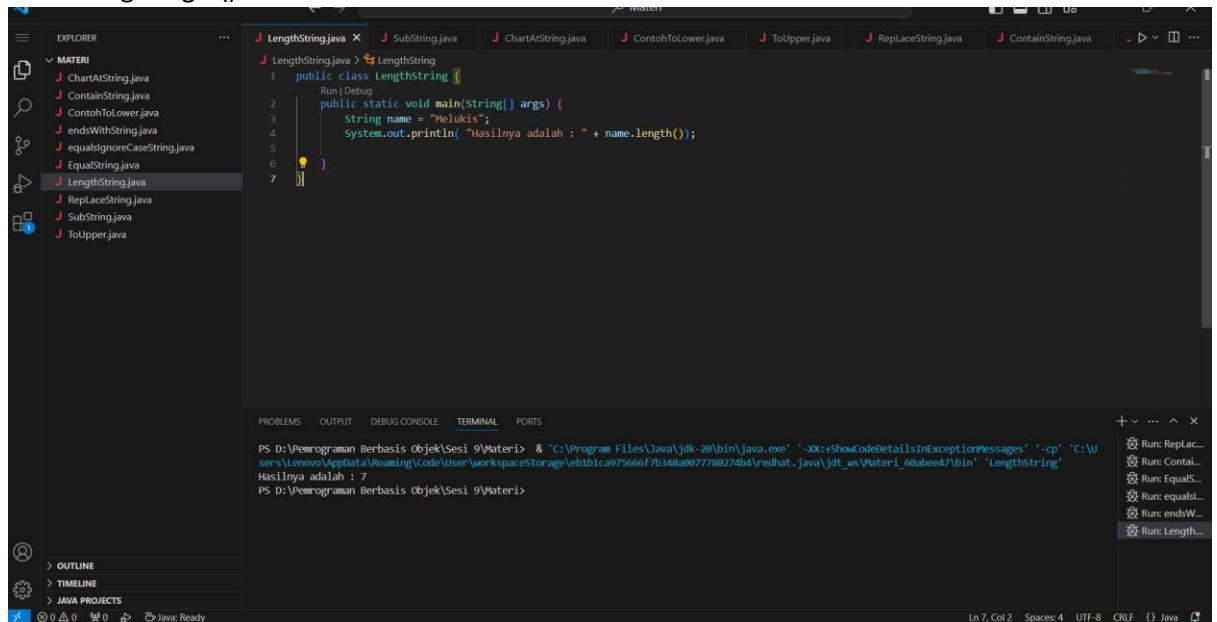
Nama : Moh. Sahal assahari

NIM 20220040272

Kelas : TI22J

PBO SESI 9

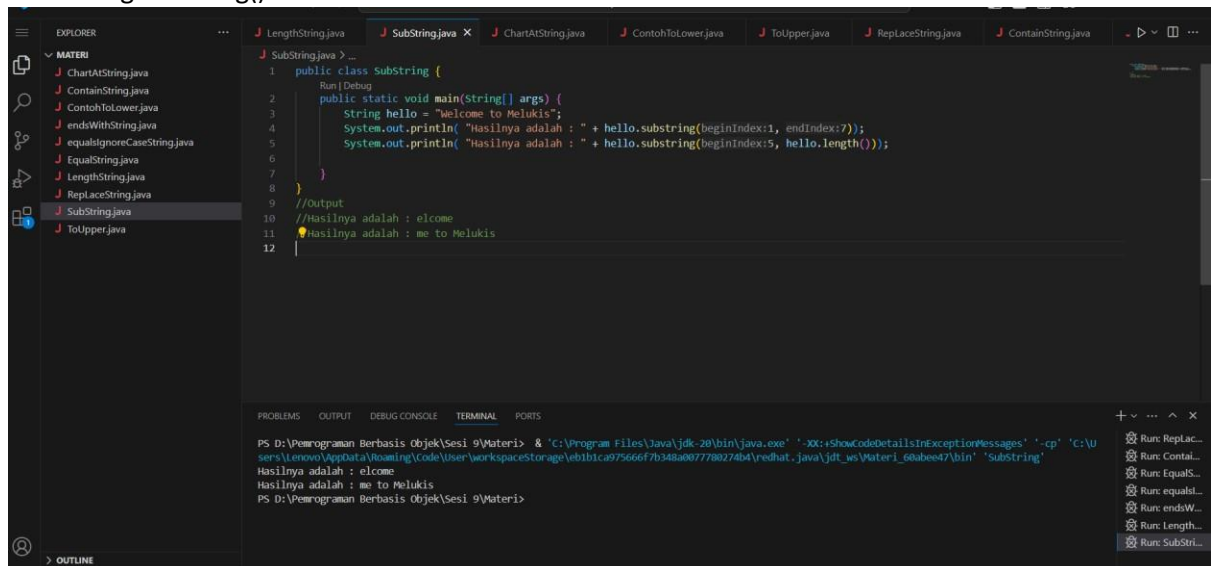
1. Java String Length()



```
LengthString.java
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 }
```

```
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\eb1b1ca975666f7b348a007780274b4\redhat.java\jdk_ws\Materi_60abed47\bin' 'LengthString'
Hasilnya adalah : 7
PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi>
```

2. Java String Substring()



```
SubString.java
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 }
```

```
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\eb1b1ca975666f7b348a007780274b4\redhat.java\jdk_ws\Materi_60abed47\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 following components:

- EXPLORER:** A list of Java files under a 'MATERI' folder, including `ChartAtString.java`, `ContainString.java`, `ContohToLower.java`, `endsWithString.java`, `equalsIgnoreCaseString.java`, `EqualString.java`, `LengthString.java`, `ReplaceString.java`, `SubString.java`, and `ToUpper.java`.
- EDITOR:** The `ChartAtString.java` file is open, showing the following code:

```
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  
9 //Output:  
10 //Hasilnya adalah huruf: k
```
- TERMINAL:** The output of the program is displayed:

```
PS D:\Pemrograman Berbasis Objek\Sesi 9\Wateri> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Lenovo\AppData\Roaming\Code\User\workspaceStorage\eb1b1ca975666f7b348a0077780274b4\redhat-java\jdt_ws\Wateri_60abee47\bin' 'ChartAtString'  
Hasilnya adalah huruf: k  
PS D:\Pemrograman Berbasis Objek\Sesi 9\Wateri>
```

4. Java String toLowerCase()

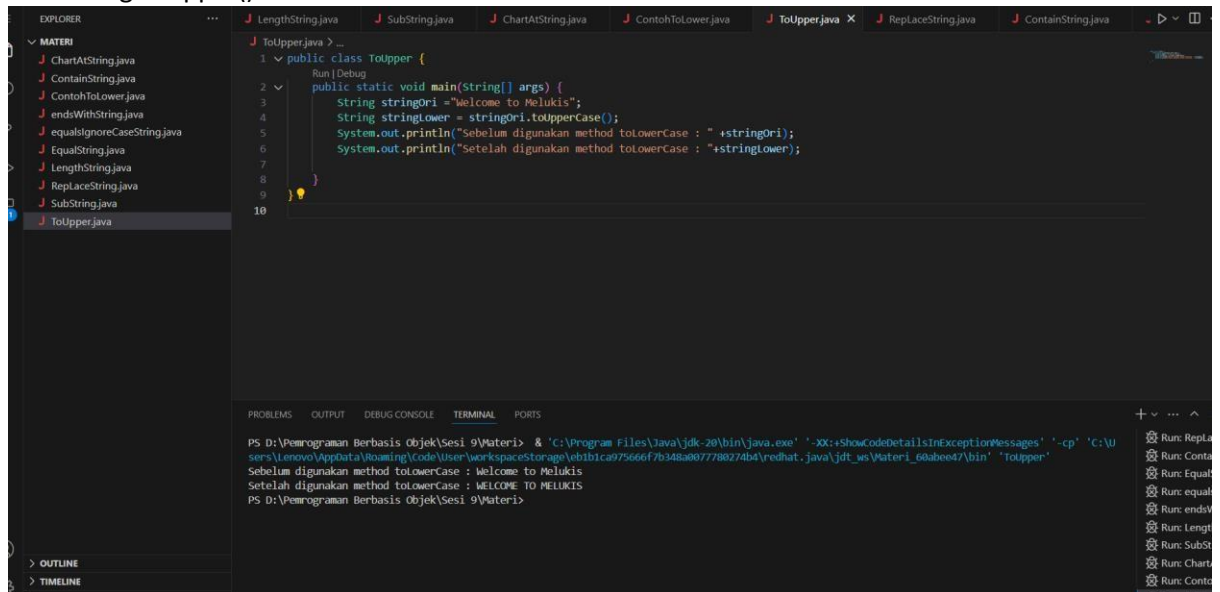
The screenshot shows an IDE with the following components:

- EXPLORER:** A list of Java files under a 'MATERI' folder, including `ChartAtString.java`, `ContainString.java`, `ContohToLower.java`, `endsWithString.java`, `equalsIgnoreCaseString.java`, `EqualString.java`, `LengthString.java`, `ReplaceString.java`, `SubString.java`, and `ToUpper.java`.
- EDITOR:** The `ContohToLower.java` file is open, showing the following code:

```
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:** The output of the program is displayed:

```
PS D:\Pemrograman Berbasis Objek\Sesi 9\Wateri> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Lenovo\AppData\Roaming\Code\User\workspaceStorage\eb1b1ca975666f7b348a0077780274b4\redhat-java\jdt_ws\Wateri_60abee47\bin' 'ContohToLower'  
Sebelum digunakan method toLowerCase : Welcome to Melukis  
Setelah digunakan method toLowerCase : welcome to melukis  
PS D:\Pemrograman Berbasis Objek\Sesi 9\Wateri>
```

5. Java String toUpper()



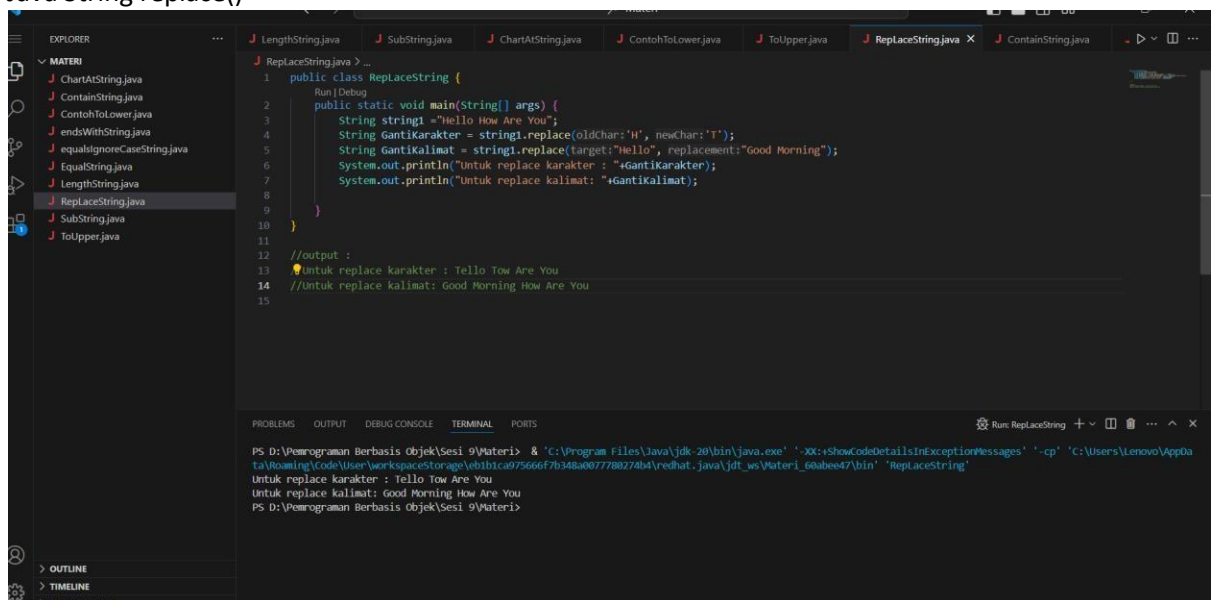
The screenshot shows an IDE with the Explorer panel on the left displaying a project named 'MATERI'. The file 'ToUpper.java' is selected. The main editor displays the code for 'ToUpper.java':

```
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' tab with the following 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\eb1b1ca975666f7b348a0077780274b4\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()



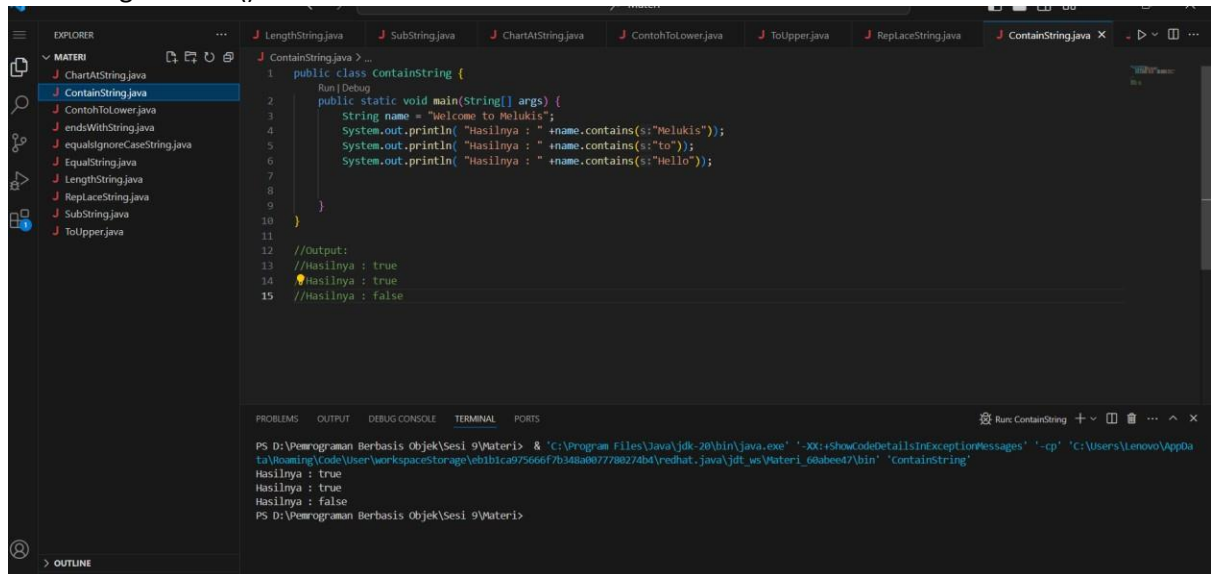
The screenshot shows an IDE with the Explorer panel on the left displaying a project named 'MATERI'. The file 'ReplaceString.java' is selected. The main editor displays the code for 'ReplaceString.java':

```
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' tab with the following 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\eb1b1ca975666f7b348a0077780274b4\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()

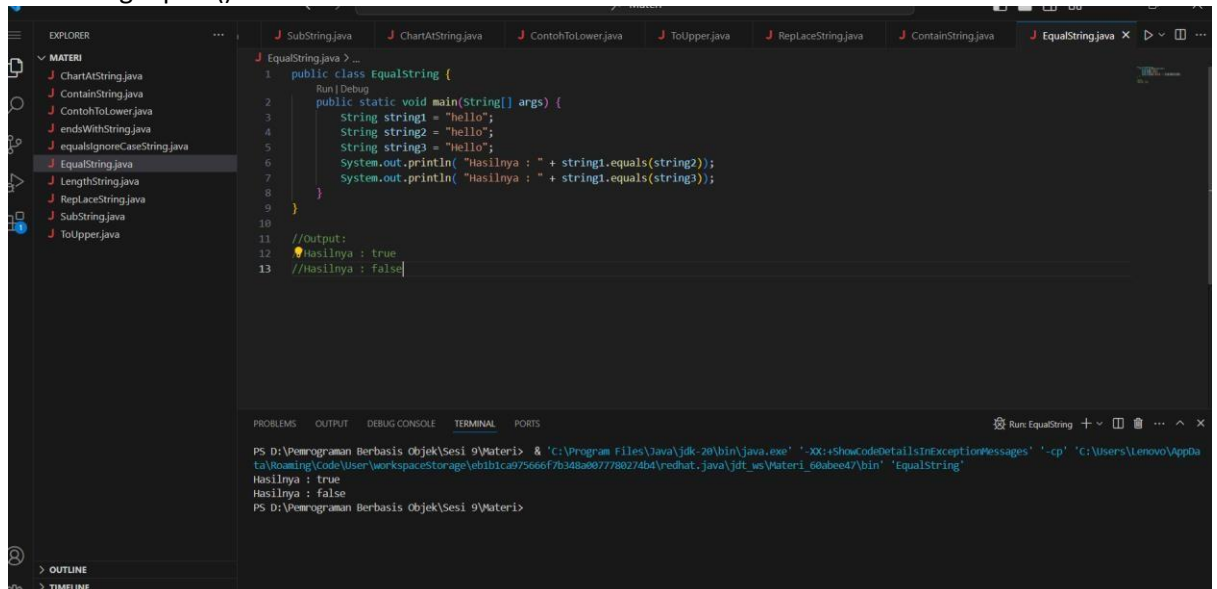


The screenshot shows an IDE with a project named 'MATERI'. The 'EXPLORER' panel on the left lists several Java files, with 'ContainString.java' selected. The main editor displays the code for 'ContainString.java', which defines a public class with a static main method. The main method initializes a string 'name' with the value 'Welcome to Melukis' and uses the 'contains()' method to check if the string contains the substrings 'to' and 'Hello'. The output of the program is shown in the 'TERMINAL' panel at the bottom, indicating that the string contains 'to' (true) but not 'Hello' (false).

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

PS D:\Penerapan 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\eb1bca975666f7b348a077780274bd\redhat.java\jdk_ws\Materi_60abee47\bin' 'ContainString'
Hasilnya : true
Hasilnya : true
Hasilnya : false
PS D:\Penerapan Berbasis Objek\Sesi 9\Materi>

8. Java String equals()

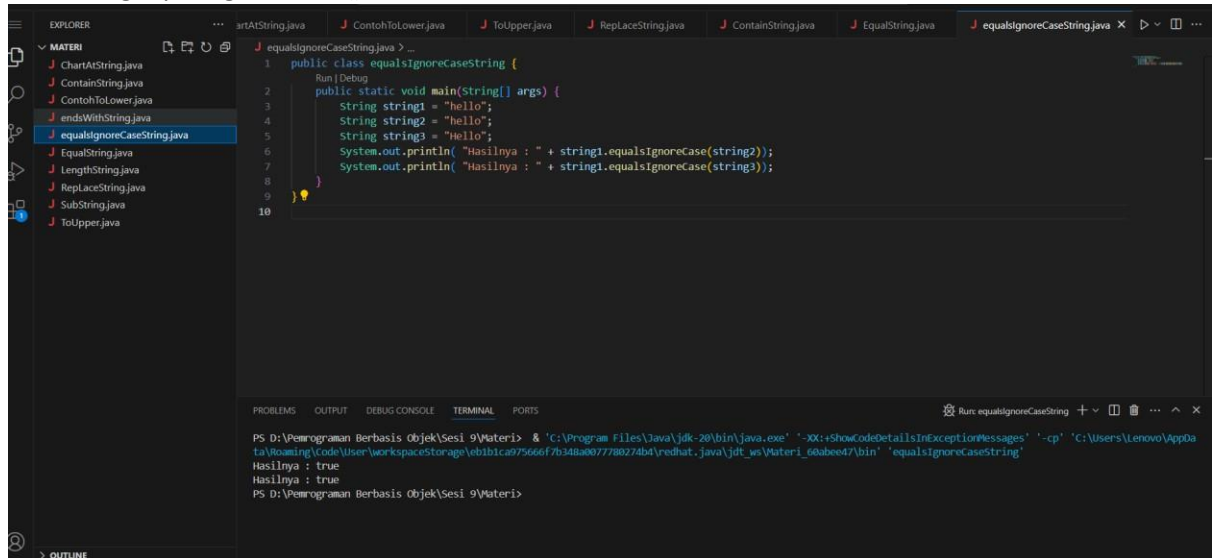


The screenshot shows the same IDE with the 'EXPLORER' panel listing the same files, but 'EqualString.java' is now selected. The main editor displays the code for 'EqualString.java', which defines a public class with a static main method. The main method initializes three strings: 'hello', 'hello', and 'Hello'. It then uses the 'equals()' method to compare the first string with the second and third strings. The output of the program is shown in the 'TERMINAL' panel, indicating that the first string is equal to the second (true) but not equal to the third (false) due to case sensitivity.

```
1 public class EqualString {  
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.equals(string2));  
7         System.out.println("Hasilnya : " + string1.equals(string3));  
8     }  
9 }  
10  
11  
12 //Output:  
13 Hasilnya : true  
14 Hasilnya : false
```

PS D:\Penerapan 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\eb1bca975666f7b348a077780274bd\redhat.java\jdk_ws\Materi_60abee47\bin' 'EqualString'
Hasilnya : true
Hasilnya : false
PS D:\Penerapan Berbasis Objek\Sesi 9\Materi>

9. Java String equalsIgnoreCase()

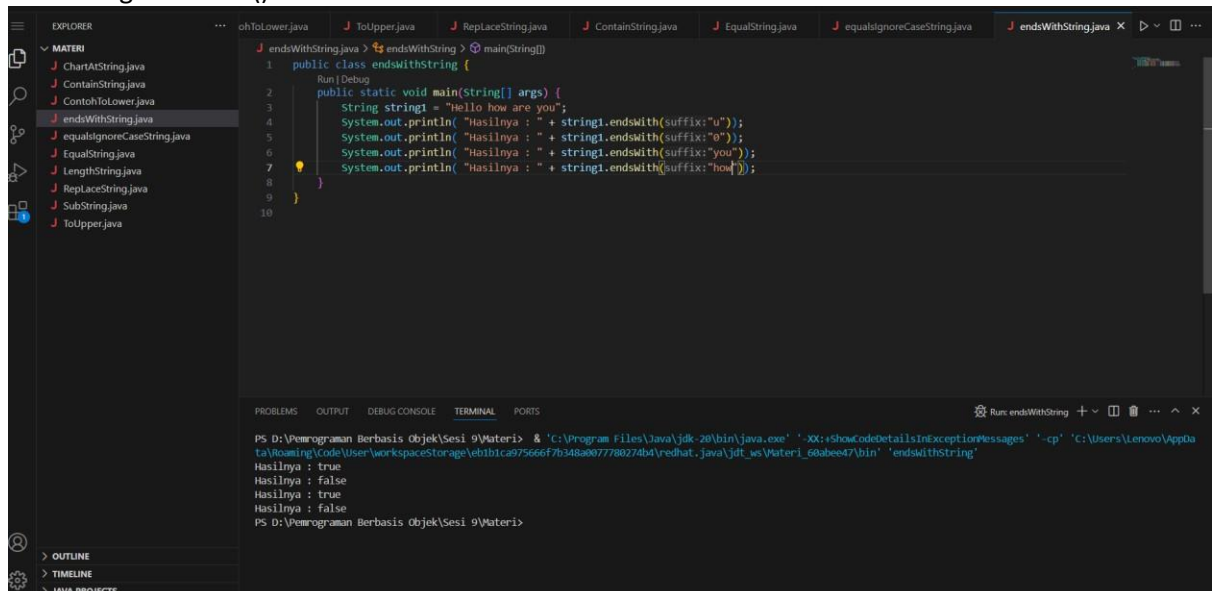


```
1 public class equalsIgnoreCaseString {
2     public static void main(String[] args) {
3         String string1 = "hello";
4         String string2 = "hello";
5         String string3 = "Hello";
6         System.out.println( "Hasilnya : " + string1.equalsIgnoreCase(string2));
7         System.out.println(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

PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi> & 'C:\Program Files\Java\jdk-20\bin\java.exe' ^-Xc:showCodeDetailsInExceptionMessages' ^-cp' 'C:\Users\Lenovo\AppData\Roaming\Code\User\workspaceStorage\eb1bca975666f7b348a0077780274bd\redhat.java\jdk_ws\Materi_6eabed47\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
```

PS D:\Pemrograman Berbasis Objek\Sesi 9\Materi> & 'C:\Program Files\Java\jdk-20\bin\java.exe' ^-Xc:showCodeDetailsInExceptionMessages' ^-cp' 'C:\Users\Lenovo\AppData\Roaming\Code\User\workspaceStorage\eb1bca975666f7b348a0077780274bd\redhat.java\jdk_ws\Materi_6eabed47\bin' 'endsWithString'

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