

```

public class stringDemo {

    public static void main(String[] args) {
        //methods of strings
        System.out.println("Methods of Strings");

        String s1=new String("Hello World");
        System.out.println(s1.length());

        //substring
        String sub=new String("Welcome");
        System.out.println(sub.substring(2));

        //String Comparison
        String s1="Hello";
        String s2="Heldo";
        System.out.println(s1.compareTo(s2));

        //IsEmpty
        String s4="";
        System.out.println(s4.isEmpty());

        //toLowerCase
        String s5="Hello";
        System.out.println(s1.toLowerCase());

        //replace
        String s6="Heldo";
        String replace=s2.replace('d', 'l');
        System.out.println(replace);

        //equals
        String x="Welcome to Java";
        String y="WeLcOmE tO JaVa";
        System.out.println(x.equals(y));

        System.out.println("\n");
        System.out.println("Creating StringBuffer");
        //Creating StringBuffer and append method
        StringBuffer s=new StringBuffer("Welcome to Java!");
        s.append("Enjoy your learning");
        System.out.println(s);

        //insert method
        s.insert(0, 'w');
        System.out.println(s);

        //replace method
        StringBuffer sb=new StringBuffer("Hello");
        sb.replace(0, 2, "hEl");
        System.out.println(sb);

        //delete method
        sb.delete(0, 1);
        System.out.println(sb);
    }
}

```

```

//StringBuilder
System.out.println("\n");
System.out.println("Creating StringBuilder");
StringBuilder sb1=new StringBuilder("Happy");
sb1.append("Learning");
System.out.println(sb1);

System.out.println(sb1.delete(0, 1));

System.out.println(sb1.insert(1, "Welcome"));

System.out.println(sb1.reverse());

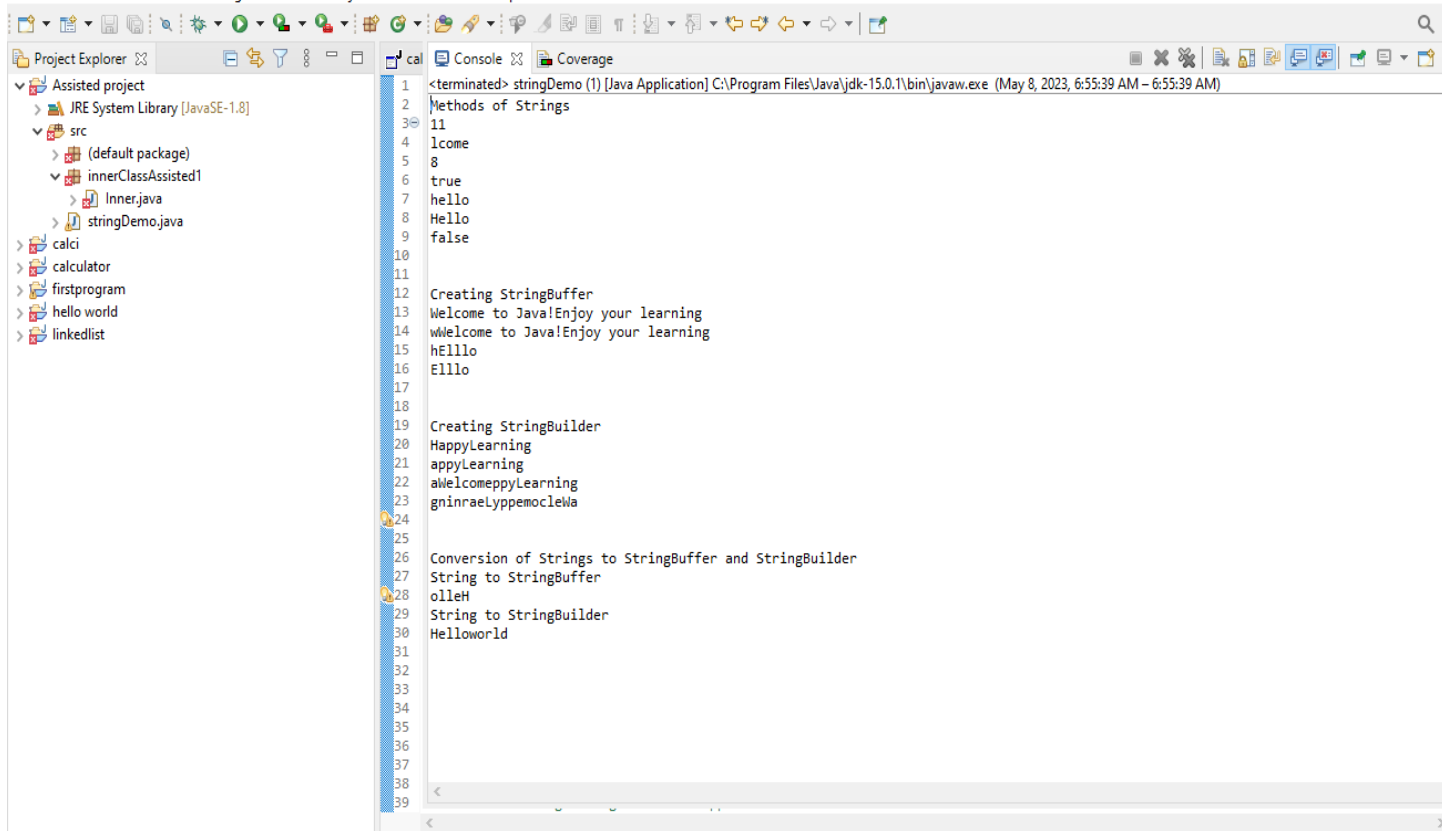
//conversion
System.out.println("\n");
System.out.println("Conversion of Strings to StringBuffer and
StringBuilder");

String str = "Hello";

// conversion from String object to StringBuffer
StringBuffer sbr = new StringBuffer(str);
sbr.reverse();
System.out.println("String to StringBuffer");
System.out.println(sbr);

// conversion from String object to StringBuilder
StringBuilder sb1 = new StringBuilder(str);
sb1.append("world");
System.out.println("String to StringBuilder");
System.out.println(sb1);
}
}

```



The screenshot shows the Eclipse IDE interface. On the left is the Project Explorer, showing a project named 'Assisted project' with a source folder 'src' containing 'stringDemo.java'. The main editor displays the 'stringDemo.java' file with the following code:

```
1 <terminated> stringDemo (1) [Java Application] C:\Program Files\Java\jdk-15.0.1\bin\javaw.exe (May 8, 2023, 6:55:39 AM - 6:55:39 AM)
2 Methods of Strings
3 11
4 lcome
5 8
6 true
7 hello
8 Hello
9 false
10
11
12 Creating StringBuffer
13 Welcome to Java!Enjoy your learning
14 Welcome to Java!Enjoy your learning
15 hEllo
16 Ello
17
18
19 Creating StringBuilder
20 HappyLearning
21 appyLearning
22 aWelcomepppyLearning
23 gninraelyppemocleka
24
25
26 Conversion of Strings to StringBuffer and StringBuilder
27 String to StringBuffer
28 olleH
29 String to StringBuilder
30 Helloworld
31
32
33
34
35
36
37
38
39
```

The Console view on the right shows the output of the application, which matches the code in the editor. The status bar at the bottom indicates the system temperature is 31°C and the time is 6:56 AM on 5/8/2023.