

Java - Strings Class

Md. Mohsin Uddin

East West University

mmuddin@ewubd.edu

April 28, 2019

Creating Strings

```
public class StringDemo {  
  
    public static void main(String args[]) {  
        char[] helloArray = { 'h', 'e', 'l', 'l', 'o', ' ', '.' };  
        String helloString = new String(helloArray);  
        System.out.println( helloString );  
    }  
}
```

When the above code is compiled and executed, it produces the following result:

```
| hello.
```

String Length

```
public class StringDemo {  
  
    public static void main(String args[]) {  
        String palindrome = "Dot_saw_l_was_Tod";  
        int len = palindrome.length();  
        System.out.println( "String_Length_is_: " + len );  
    }  
}
```

When the above code is compiled and executed, it produces the following result:

```
| String Length is : 17
```

Concatenating Strings

```
public class StringDemo {  
  
    public static void main(String args[]) {  
        String string1 = "saw_I_was_";  
        System.out.println("Dot_" + string1 + "Tod");  
  
        String s1 = "My_name_is_";  
        String s2= s1.concat("Mohsin");  
        System.out.println(s2);  
    }  
}
```

When the above code is compiled and executed, it produces the following result:

```
| Dot saw I was Tod  
| My name is Mohsin
```

Creating Formatted Strings

```
package ewu.cse;
public class StringFormat {
    public static void main(String args[]) {
        double doubleVar = 10.5;
        int intVar = 20;
        String stringVar = "Test";
        System.out.printf("The_val_of_the_double_variable_is_" +
            "%f, _while_the_value_of_the_integer_" +
            "variable_is_%d, _and_the_string_" +
            "is_%s", doubleVar, intVar, stringVar);
        System.out.println("");
        String fs;
        fs = String.format("The_val_of_the_double_variable_is_" +
            "%f, _while_the_value_of_the_integer_" +
            "variable_is_%d, _and_the_string_" +
            "is_%s", doubleVar, intVar, stringVar);
        System.out.println(fs);
    }
}
```

Regular expression

```
package ewu.cse;
public class StringMatch {
    public static void main(String args[]) {
        String Str = new String("Welcome_to_the_Java_world");
        //public boolean matches(String regex)
        System.out.print("Return_Value:" );
        System.out.println(Str.matches("(.*?)Java(.*?)"));
        System.out.print("Return_Value:" );
        System.out.println(Str.matches("Java"));
        System.out.print("Return_Value:" );
        boolean val = Str.matches("Welcome(.*?)");
        System.out.println(val);
    }
}
```

When the above code is compiled and executed, it produces the following result:

```
Return Value :true
Return Value :false
Return Value :true
```

String Replacement

```
package ewu.cse;  
public class StringReplace {  
    public static void main(String args[]) {  
        String Str = new String("Welcome_to_CSE110");  
        System.out.print("Return_Value:");  
        System.out.println(Str.replace('o', 'T'));  
        System.out.print("Return_Value:");  
        System.out.println(Str.replace('l', 'D'));  
        Str = new String("Welcome_to_CSE110_course");  
        System.out.print("Return_Value:");  
        //public String replaceAll(String regex, String replacement)  
        System.out.println(Str.replaceAll("(.* )CSE110(.* )", "JAVA"));  
    }  
}
```

When the above code is compiled and executed, it produces the following result:

```
Return Value :WelcTme tT CSE110  
Return Value :WeDcome to CSE110  
Return Value :JAVA
```

String Splitting

```
package ewu.cse;  
public class SringSplit {  
    public static void main(String args[]) {  
        String Str = "Welcome-to-CSE110";  
        System.out.println("Return_Value:" );  
        for (String retval: Str.split("-")) {  
            System.out.println(retval);  
        }  
    }  
}
```

When the above code is compiled and executed, it produces the following result:

```
Return Value :  
Welcome  
to  
CSE110
```


String LowerCase and UpperCase

```
package ewu.cse;  
public class StringCase {  
    public static void main(String args[]) {  
        String Str = new String("Welcome_to_CSE110");  
        System.out.print("Return_Value:");  
        System.out.println(Str.toLowerCase());  
        System.out.print("Return_Value:");  
        System.out.println(Str.toUpperCase());  
    }  
}
```

When the above code is compiled and executed, it produces the following result:

```
| Return Value :welcome to cse110  
| Return Value :WELCOME TO CSE110
```

References



DEITEL, Java How to Program, 11/e



Java: the complete reference, Herbert Schildt, McGraw-Hill Education Group