

charAt

```
String str = "123345a";  
for (int i = 0; i < str.length(); i++)  
    if (!Character.isDigit(str.charAt(i)))  
    {  
        System.out.println("Not a number");  
        break;  
    }
```

```
/*  
Output:  
Not a number  
*/
```

contains

```
String[] names = { "Mohammad", "Mohammad Ali",  
                  "AliMohammad", "Reza", "Saman" };  
for (int i = 0; i < names.length; i++)  
{  
    String name = names[i];  
    if(name.contains("Mohammad"))  
        System.out.println(name);  
}  
/*
```

Output:

Mohammad

Mohammad Ali

AliMohammad

*/

endsWith

```
String[] words = { "init", "operation", "explosion",  
                  "arm", "satisfaction" };  
for (int i = 0; i < words.length; i++)  
{  
    String word = words[i];  
    if(word.endsWith("tion") || word.endsWith("sion"))  
        System.out.println(word);  
}
```

```
/*
```

Output:

operation

explosion

satisfaction

```
*/
```

startsWith

```
String[] verbs = { "empower", "enforce", "go", "encourage", "come" };  
for (int i = 0; i < verbs.length; i++)  
{  
    String verb = verbs[i];  
    if(verb.startsWith("en") || verb.startsWith("em"))  
        System.out.println(verb);  
}
```

/*

Output:

empower

enforce

encourage

*/

//Also there is a method with startsWith(prefix, toffset) signature

toLowerCase/UpperCase

```
String str = "Hello World!";  
System.out.println(str.toLowerCase());  
System.out.println(str.toUpperCase());
```

```
/*  
Output:  
hello world!  
HELLO WORLD!  
*/
```

indexOf

```
String str = "The fox jumps over the dog.";
System.out.println(str.indexOf("fox"));
System.out.println(str.indexOf("dog"));
System.out.println(str.lastIndexOf('e'));
```

```
/*
Output:
4
23
21
*/
```

```
//Also there is a method with indexOf(str, fromIndex) signature
```

substring

```
String str = "apple => fruit => edible";  
int index = str.indexOf("=>");  
System.out.println(str.substring(0, index));  
int nextIndex = str.indexOf("=>", index + 1);  
System.out.println(str.substring(index + 2, nextIndex));  
System.out.println(str.substring(nextIndex + 2));
```

```
/*Output:  
apple  
  fruit  
  edible  
*/
```

trim

```
String str = "apple => fruit";  
int index = str.indexOf("=>");  
System.out.println(str.substring(0, index).trim());  
System.out.println(str.substring(index + 2).trim());
```

```
/*  
Output:  
apple  
fruit  
*/
```


String.format

```
String.format("%.2f, %.2f)", x, y);
```

replace

```
String str = "Hello! It's me.\nHello! Can you hear me?!";  
System.out.println(str.replace("Hello", "Hi"));
```

```
/*Output:  
Hi! It's me.  
Hi! Can you hear me?!  
*/
```

Immutability

```
String str = "  test  ";  
str.toUpperCase();  
str.trim();  
System.out.println(str);
```

intern

```
String s1 = "Salam";
String s2 = "Salam";
String s3 = "Salam".intern();
String s4 = new String("Salam");
String s5 = new String("Salam").intern();

if (s1 == s2)
    System.out.println("s1 and s2 are same");

if (s1 == s3)
    System.out.println("s1 and s3 are same");

if (s1 == s4)
    System.out.println("s1 and s4 are same");

if (s1 == s5)
    System.out.println("s1 and s5 are same");
```

```
/*Output:
s1 and s2 are same
s1 and s3 are same
s1 and s5 are same
*/
```