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```
public class StringOperations {
  public static void main(String[] args) {
    String str = "Hello, world!";
    // find length of the string
    int length = str.length();
    System.out.println("Length of the string: " + length);
    // find the character at a given index
    char ch = str.charAt(7);
    System.out.println("Character at index 7: " + ch);
    // find a substring within the string
    String substring = str.substring(7, 12);
    System.out.println("Substring from index 7 to 11: " + substring);
    // find the index of a given character within the string
    int index = str.indexOf('o');
    System.out.println("Index of 'o': " + index);
    // check if the string starts with a given prefix
    boolean startsWith = str.startsWith("Hello");
    System.out.println("Starts with 'Hello': " + startsWith);
    // check if the string ends with a given suffix
    boolean endsWith = str.endsWith("!");
    System.out.println("Ends with '!': " + endsWith);
    // check if the string is empty
    boolean isEmpty = str.isEmpty();
```

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System.out.println("Is empty: " + isEmpty);

// check if the string is equal to another string
boolean isEqual = str.equals("Hello, world!");
System.out.println("Is equal to 'Hello, world!': " + isEqual);

// check if the string is equal to another string (ignoring case)
boolean isEqualIgnoreCase = str.equalIgnoreCase("HELLO, WORLD!");
System.out.println("Is equal to 'HELLO, WORLD!': " + isEqualIgnoreCase);

// concatenate two strings
String str2 = " Goodbye, world!";
String concat = str.concat(str2);
System.out.println("Concatenated string: " + concat);
}
```

```
Cutput:

Length of the string: 13

Character at index 7: w

Substring from index 7 to 11: world

Index of 'o': 4

Starts with 'Hello': true

Ends with '!': true

Is empty: false

Is equal to 'Hello, world!': true

Is equal to 'HELLO, WORLD!': true

Concatenated string: Hello, world! Goodbye, world
```