StringExample.java - Notepad

File Edit View

```
public class StringExample {
    public static void main(String[] args) {
        String str1 = "The quick brown fox jumps over the lazy dog.";
        String str2 = "The brown fox";

        if (str1.contains("fox")) {
            System.out.println("String str1 contains the word 'fox'.");
        } else {
            System.out.println("String str1 does not contain the word 'fox'.");
        }

        if (str2.contains("fox")) {
            System.out.println("String str2 contains the word 'fox'.");
        } else {
            System.out.println("String str2 does not contain the word 'fox'.");
        }
    }
}
```

OUTPUT:

```
To specify an argument for a long option, you can use --<name><=><value> or
-<name> <value>.

C:\Users\suhas\OneDrive\Documents\192011251>javac StringExample.java

C:\Users\suhas\OneDrive\Documents\192011251>java StringExample
String str1 contains the word 'fox'.
String str2 contains the word 'fox'.
```

II.

PROGRAM:

StringEndsWithExample.java - Notepad

File Edit View

```
public class StringEndsWithExample {
    public static void main(String[] args) {
        String str1 = "The quick brown fox jumps over the lazy dog.";
        String str2 = "lazy dog.";

        if (str1.endsWith(str2)) {
            System.out.println("String str1 ends with the contents of string str2.");
        } else {
            System.out.println("String str1 does not end with the contents of string str2.");
        }
    }
}
```

OUTPUT:

```
C:\Users\suhas\OneDrive\Documents\192011251>javac StringEndsWithExample.java

C:\Users\suhas\OneDrive\Documents\192011251>java StringEndsWithExample
String str1 ends with the contents of string str2.

C:\Users\suhas\OneDrive\Documents\192011251>
```

III.

PROGRAM:

*Untitled - Notepad

File Edit View

```
 import java.time.LocalDateTime;
import java.time.format.DateTimeFormatter;

public class DateTimeExample {
    public static void main(String[] args) {
        String str = "The quick brown fox jumps over the lazy dog.";
        LocalDateTime now = LocalDateTime.now();
        DateTimeFormatter formatter = DateTimeFormatter.ofPattern("yyyy-MM-dd HH:mm:ss");
        String formatDateTime = now.format(formatter);
        System.out.println("Current date and time: " + formatDateTime);
    }
```

OUTPUT:

Command Prompt

```
C:\Users\suhas\OneDrive\Documents\192011251>javac DateTimeExample.java

C:\Users\suhas\OneDrive\Documents\192011251>java DateTimeExample
Current date and time: 2023-03-29 22:14:19

C:\Users\suhas\OneDrive\Documents\192011251>
```

IV.

PROGRAM:

*Untitled - Notepad

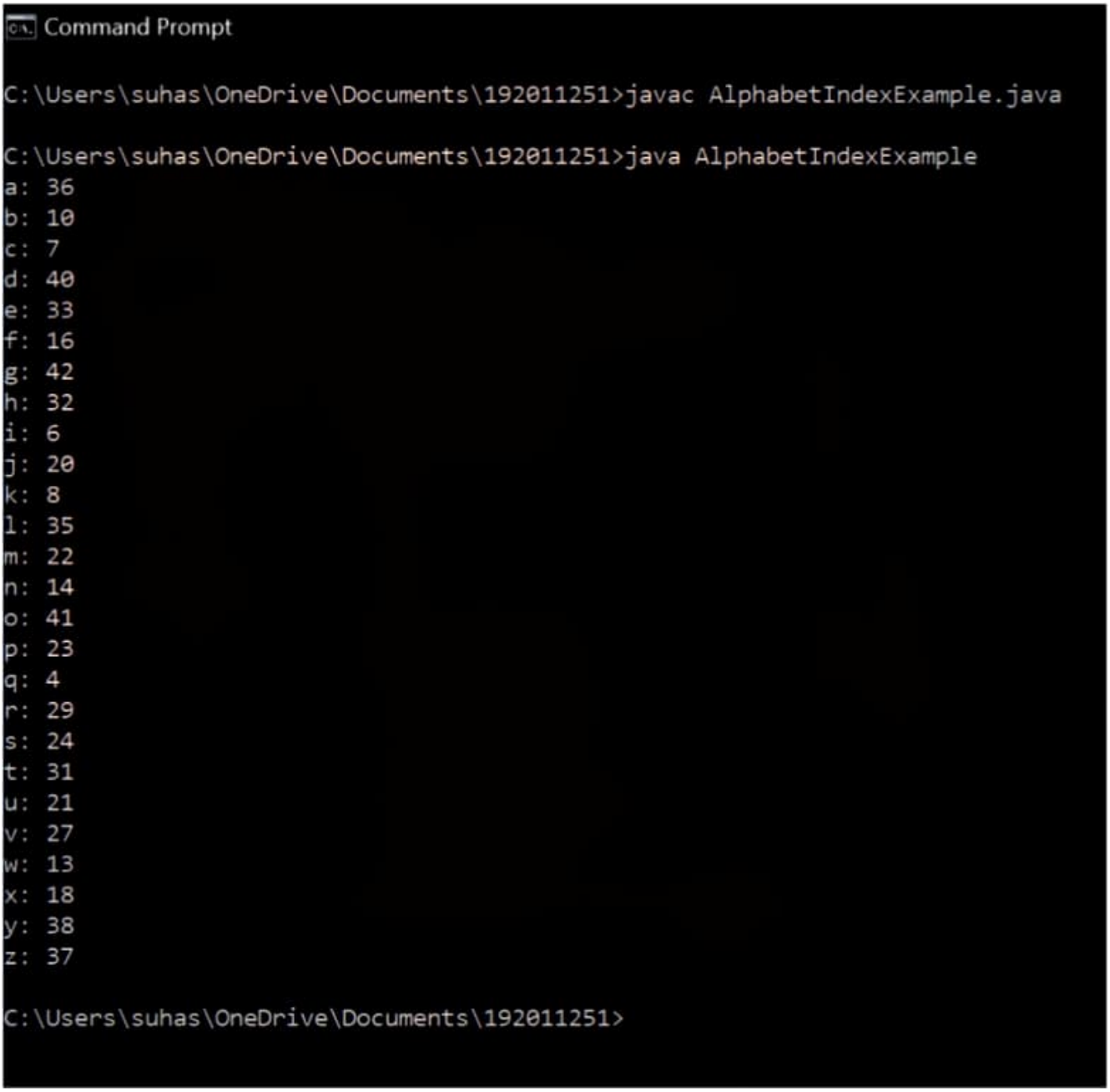
File Edit View

```
public class AlphabetIndexExample {
    public static void main(String[] args) {
        String str = "The quick brown fox jumps over the lazy dog.";
        str = str.toLowerCase();
        int[] index = new int[26];

        for (int i = 0; i < str.length(); i++) {
            char c = str.charAt(i);
            if (c >= 'a' && c <= 'z') {
                index[c - 'a'] = i;
            }
        }

        for (int i = 0; i < index.length; i++) {
            char c = (char) ('a' + i);
            System.out.println(c + ": " + index[i]);
        }
    }
}
```

OUTPUT:


Command Prompt
C:\Users\suhas\OneDrive\Documents\192011251>javac AlphabetIndexExample.java
C:\Users\suhas\OneDrive\Documents\192011251>java AlphabetIndexExample
a: 36
b: 10
c: 7
d: 40
e: 33
f: 16
g: 42
h: 32
i: 6
j: 20
k: 8
l: 35
m: 22
n: 14
o: 41
p: 23
q: 4
r: 29
s: 24
t: 31
u: 21
v: 27
w: 13
x: 18
y: 38
z: 37
C:\Users\suhas\OneDrive\Documents\192011251>

V.

PROGRAM:

*Untitled - Notepad

File Edit View

```
public class StringReplaceExample {
    public static void main(String[] args) {
        String str = "The quick brown fox jumps over the lazy dog.";
        String regex = "fox";
        String replacement = "cat";

        String result = str.replaceAll(regex, replacement);

        System.out.println("Original string: " + str);
        System.out.println("Replaced string: " + result);
    }
}
```

OUTPUT:

Command Prompt

```
C:\Users\suhas\OneDrive\Documents\192011251>javac StringReplaceExample.java

C:\Users\suhas\OneDrive\Documents\192011251>java StringReplaceExample
Original string: The quick brown fox jumps over the lazy dog.
Replaced string: The quick brown cat jumps over the lazy dog.

C:\Users\suhas\OneDrive\Documents\192011251>
```

VI.

PROGRAM:

*Untitled - Notepad

File Edit View

```
public class SubstringExample {
    public static void main(String[] args) {
        String str = "The quick brown fox jumps over the lazy dog.";
        int startIndex = 16;
        int endIndex = 19;

        String substring = str.substring(startIndex, endIndex);

        System.out.println("Original string: " + str);
        System.out.println("Substring between " + startIndex + " and " + endIndex + ": " + substring);
    }
}
```

OUTPUT:

Command Prompt

```
C:\Users\suhas\OneDrive\Documents\192011251>javac SubstringExample.java

C:\Users\suhas\OneDrive\Documents\192011251>java SubstringExample
Original string: The quick brown fox jumps over the lazy dog.
Substring between 16 and 19: fox

C:\Users\suhas\OneDrive\Documents\192011251>
```

VII.

PROGRAM:

*Untitled - Notepad

File Edit View

```
public class TrimExample {
    public static void main(String[] args) {
        String str = "    The quick brown fox jumps over the lazy dog.    ";

        String trimmed = str.trim();

        System.out.println("Original string: \"" + str + "\"");
        System.out.println("Trimmed string: \"" + trimmed + "\"");
    }
}
```

OUTPUT:

Command Prompt

```
C:\Users\suhas\OneDrive\Documents\192011251>javac TrimExample.java

C:\Users\suhas\OneDrive\Documents\192011251>java TrimExample
Original string: "    The quick brown fox jumps over the lazy dog.    "
Trimmed string: "The quick brown fox jumps over the lazy dog."

C:\Users\suhas\OneDrive\Documents\192011251>
```

VIII.

PROGRAM:

*Untitled - Notepad

File Edit View

```
public class LowercaseExample {
    public static void main(String[] args) {
        String str = "The quick brown fox jumps over the lazy dog.";

        String lowercase = str.toLowerCase();

        System.out.println("Original string: " + str);
        System.out.println("Lowercase string: " + lowercase);
    }
}
```

OUTPUT:

Select Command Prompt

```
C:\Users\suhas\OneDrive\Documents\192011251>javac LowercaseExample.java

C:\Users\suhas\OneDrive\Documents\192011251>java LowercaseExample
Original string: The quick brown fox jumps over the lazy dog.
Lowercase string: the quick brown fox jumps over the lazy dog.

C:\Users\suhas\OneDrive\Documents\192011251>
```

IX.

PROGRAM

*Untitled - Notepad

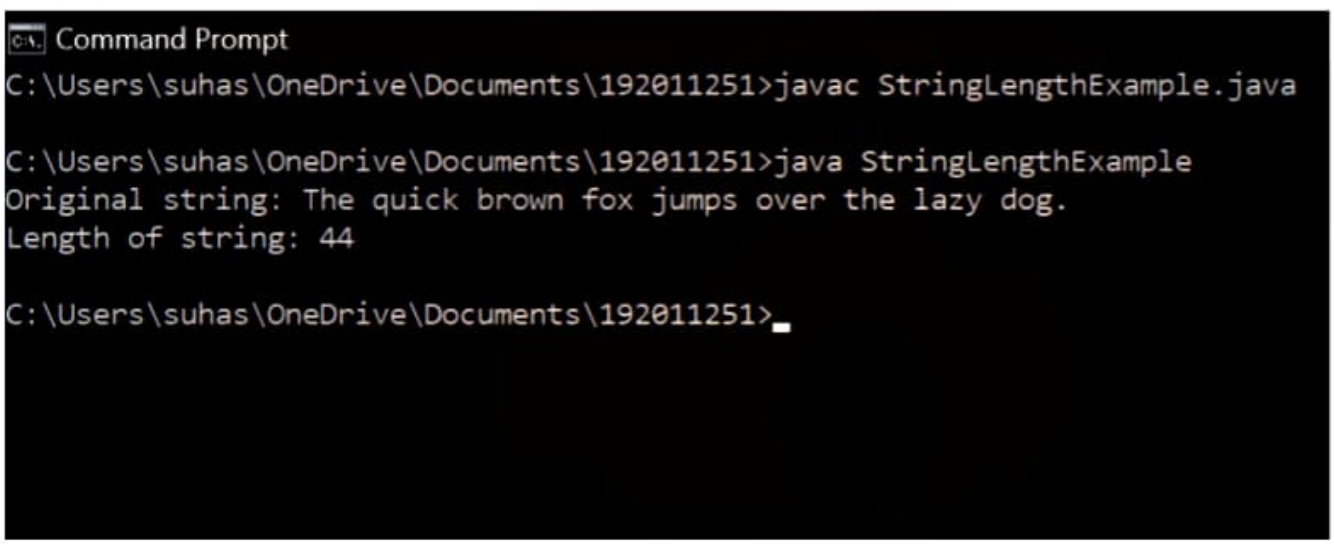
File Edit View

```
public class StringLengthExample {
    public static void main(String[] args) {
        String str = "The quick brown fox jumps over the lazy dog.";

        int length = str.length();

        System.out.println("Original string: " + str);
        System.out.println("Length of string: " + length);
    }
}
```

OUTPUT:



X.

PROGRAM:

*Untitled - Notepad

File Edit View

```
public class StringEqualityExample {
    public static void main(String[] args) {
        String str1 = "The quick brown fox jumps over the lazy dog.";
        String str2 = "The quick brown fox jumps over the lazy dog.";

        boolean isEqual = str1.equals(str2);

        System.out.println("String 1: " + str1);
        System.out.println("String 2: " + str2);
        System.out.println("Are the strings equal? " + isEqual);
    }
}
```

OUTPUT:

Select Command Prompt

```
C:\Users\suhas\OneDrive\Documents\192011251>javac StringEqualityExample.java

C:\Users\suhas\OneDrive\Documents\192011251>java StringEqualityExample
String 1: The quick brown fox jumps over the lazy dog.
String 2: The quick brown fox jumps over the lazy dog.
Are the strings equal? true

C:\Users\suhas\OneDrive\Documents\192011251>
```