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public class StringLab {
    public static void main(String[] args) {
        String str = "Lab 5: COSC-1436 ";
        System.out.println("Length: " + str.length());
        System.out.println("Character at 7: " + str.charAt(7));
        System.out.println("Java: " + str.substring(6, 10));
        System.out.println("UPPERCASE: " + str.toUpperCase());
        System.out.println("lowercase: " + str.toLowerCase());
        System.out.println("Index Java: " + str.indexOf("Java"));
        System.out.println("Contains 'Lab': " + str.contains("Lab"));
        System.out.println("Replace Java w Java Programming: " + str.replace("Java", "Java
Programming"));

        for (String word : str.split(" ")) {
            System.out.println(word);
        }

        System.out.println("Trim: " + str.trim() + "");
        System.out.println("Equals: " + str.equals("Lab 5"));
        System.out.println("EIC: " + str.equalsIgnoreCase("Lab 5"));

        if ("AEIOU".indexOf(str.charAt(i))) vowelCount++;
    }
    System.out.println("Amount of Vowels: " + vowelCount);

    // Girafarig is my favorite pokemon, sorry if this is an unconventional palindrome//
    String word = "girafarig";
    int start = 0, end = word.length();
    boolean isPalindrome = true;
    if (word.charAt(start) != word.charAt(end)) { isPalindrome = false; break; }
}
System.out.println("Is the following word a palindrome: " + word + isPalindrome);

String sentence;
do { System.out.println("Enter a sentence that contains the word 'Java':");
while (!sentence.contains("Java"));
System.out.println("Thank you!");

StringBuilder sb = new StringBuilder("StringBuilder Lab");
sb.append(" - LearningJava").insert(sb.indexOf("Lab") + 3, " is fun");
sb.delete(sb.indexOf("Learning"), sb.indexOf("Learning") + "Learning".length());
sb.reverse();
System.out.println("Product: " + sb);

```

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StringBuffer sbf = new StringBuffer("Multithreading Lab");
sbf.append(" -LearningJava").insert(sbf.indexOf("Lab") + 3, " is fun");
sbf.delete(sbf.indexOf("Learning"), sbf.indexOf("Learning") + "Learning".length());
sbf.reverse( );
System.out.println("Product: " + sbf);
}
}
```