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Module

```
import java.util.Scanner; //imports the scanner class that allows
computer to read user input

class SubstringChecker { //class is blueprint for our program which
is SubstringChecker
    public static void main(String[] args) { //main method will start
our program

        Scanner scanner = new Scanner(System.in); //scanner will
intake user input

        System.out.println("Welcome to Sub-String Checker"); //
welcome message displayed to user
        System.out.print("Enter the first string, using only one word:
"); //user asked to enter one word only
        String firstString = scanner.nextLine(); // assigns user input
to the firstString variable

        System.out.print("Enter the second string, using only one
word: "); //user asked to enter one word
        String secondString = scanner.nextLine(); // assigns user
input to the secondString variable

        if (firstString.contains(secondString)) { // if option for
first string is found in second string
            System.out.println("'" + secondString + "' is a substring
of '" + firstString + "'"); // prints outcome if scenario is true
        } else if (secondString.contains(firstString)) { //else if
option for second string contains first string
            System.out.println("'" + firstString + "' is a substring
of '" + secondString + "'"); // prints outcome if scenario is true
        } else {
            System.out.println("Both strings are not substrings of the
other"); // else prints they are not substrings of each other
        }

        scanner.close(); //close scanner when user input not needed
any more
    }
}
```

```

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2
3  class SubStringChecker { //class is blueprint for our program which is SubStringChecker
4      Run Coding
5      public static void main(String[] args) { //main method will start our program
6
7          Scanner scanner = new Scanner(System.in); //scanner will intake user input
8
9          System.out.println("Welcome to Sub-String Checker"); // welcome message displayed to user
10         System.out.println("Enter the first string, using only one word: "); //user asked to enter one word only
11         String firstString = scanner.nextLine(); // assigns user input to the firstString variable
12
13         System.out.println("Enter the second string, using only one word: "); //user asked to enter one word
14         String secondString = scanner.nextLine(); // assigns user input to the secondString variable
15
16         if (firstString.contains(secondString)) { // if option for first string is found in second string
17             System.out.println("'" + secondString + "' is a substring of '" + firstString + "'"); // prints outcome if scenario is true
18         } else if (secondString.contains(firstString)) { //else if option for second string contains first string
19             System.out.println("'" + firstString + "' is a substring of '" + secondString + "'"); // prints outcome if scenario is true
20         } else {
21             System.out.println("Both strings are not substrings of the other"); // else prints they are not substrings of each other
22         }
23         scanner.close(); //close scanner when user input not needed any more
24     }
25 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```

candice@candice-Mac ~ % /usr/bin/env /Library/Java/JavaVirtualMachines/jdk-21.jdk/Contents/Home/bin/java -XX:ShowCodeDetails=ExceptionMessages -cp /private/var/folders/jg/r2mxyz5cd2b7wy6k4ykj08080pn/7/vscodewsw_c824b/jdt_ws/jdt.ls-java-project/bin SubStringChecker
Welcome to Sub-String Checker
Enter the first string, using only one word: watermelon
Enter the second string, using only one word: melon
"melon" is a substring of "watermelon"
candice@candice-Mac ~ % /usr/bin/env /Library/Java/JavaVirtualMachines/jdk-21.jdk/Contents/Home/bin/java -XX:ShowCodeDetails=ExceptionMessages -cp /private/var/folders/jg/r2mxyz5cd2b7wy6k4ykj08080pn/7/vscodewsw_c824b/jdt_ws/jdt.ls-java-project/bin SubStringChecker
Welcome to Sub-String Checker
Enter the first string, using only one word:

```

Ln 25, Col 2 Space 4 UTF-8 LF 1 Java