PROGRAM 02

```java
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter the first string: ");
        String str1 = scanner.nextLine();
        System.out.print("Enter the second string: ");
        String str2 = scanner.nextLine();

        System.out.println("\nChoose a string operation:");
        System.out.println("1. Find Length");
        System.out.println("2. Convert to Uppercase");
        System.out.println("3. Convert to Lowercase");
        System.out.println("4. Concatenate Strings");
        System.out.println("5. Check if Substring Exists");
        System.out.println("6. Check if String is Empty");
        System.out.println("7. Exit");

        while(true) {
            System.out.print("\nEnter your choice: ");
            int choice = scanner.nextInt();
            scanner.nextLine();

            switch (choice) {
                case 1:
                    System.out.println("1. Length of first string: " + str1.length());
                    System.out.println("1. Length of second string: " + str2.length());
                    break;
                case 2:
                    System.out.println("2. First string in uppercase: " + str1.toUpperCase());
                    System.out.println("2. Second string in uppercase: " + str2.toUpperCase());
                    break;
                case 3:
                    System.out.println("3. First string in lowercase: " + str1.toLowerCase());
                    System.out.println("3. Second string in lowercase: " + str2.toLowerCase());
                    break;
                case 4:
                    System.out.println("4. Concatenated string: " + str1.concat(str2));
                    break;
                case 5:
```
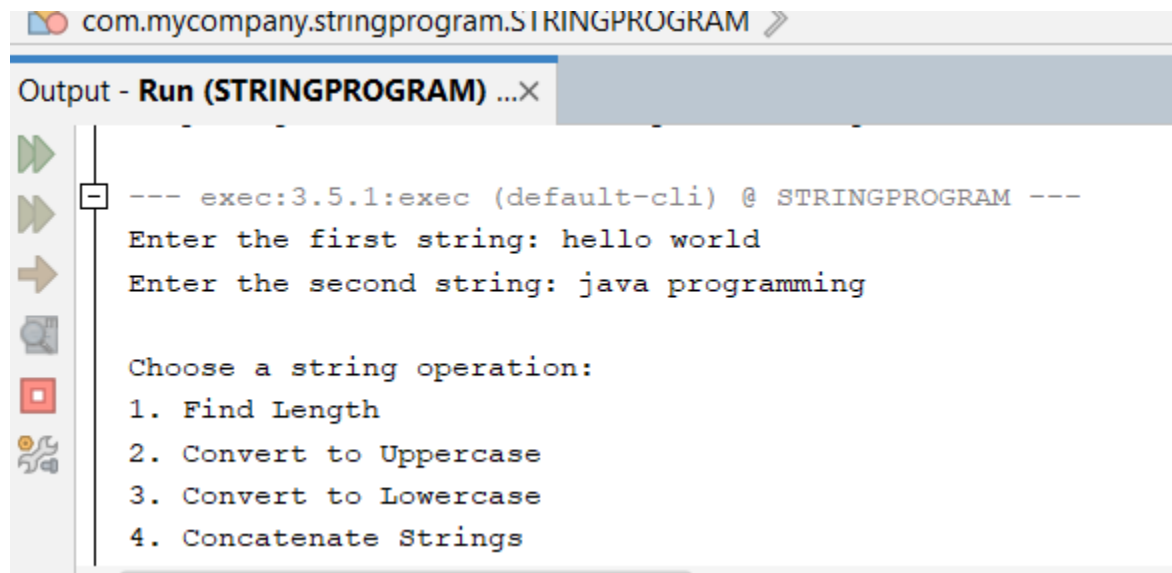
```java
            System.out.print("5. Enter a substring to check in the first string: ");
            String substring = scanner.nextLine();
            if (str1.contains(substring)) {
                System.out.println("5. Substring exists in the first string.");
            } else {
                System.out.println("5. Substring does not exist in the first string.");
            }
            break;
        case 6:
            System.out.println("6. Is the first string empty? " + str1.isEmpty());
            System.out.println("6. Is the second string empty? " + str2.isEmpty());
            break;
        case 7:
            System.out.println("7. Exiting the program !");
            break;
        default:
            System.out.println("Invalid choice. Please try again.");
            return;
    }

    }
  }

}
```

com.mycompany.stringprogram.STRINGPROGRAM »

Output - Run (STRINGPROGRAM) ...×

```
--- exec:3.5.1:exec (default-cli) @ STRINGPROGRAM ---
Enter the first string: hello world
Enter the second string: java programming

Choose a string operation:
1. Find Length
2. Convert to Uppercase
3. Convert to Lowercase
4. Concatenate Strings
```