String Concatination

1.Challenge: Concatenate first name and last name

Code:

```java
public class NameConcat {

    public static void main(String[] args) {

        String firstName = "Sreevani";

        String lastName = "Dasari";

        String fullName = firstName + " " + lastName;

        System.out.println("Full Name: " + fullName);

    }

}
```

Output:

Full Name: Sreevani Dasari

2.Challenge: Combine name, age, and address using string concatenation

Code:

```java
public class PersonalInfoConcat {

    public static void main(String[] args) {

        String name = "Sreevani";

        int age = 22;

        String address = "A.P";


        String result = "Name: " + name + ", Age: " + age + ", Address: " + address;

        System.out.println(result);

    }

}
```

Output:

Name: Sreevani, Age: 22, Address: A.P

3.Challenge: Use concatenation inside a loop to build a pattern.

Code:

```java
public class LoopConcatPattern {
    public static void main(String[] args) {
        String pattern = "";
        for (int i = 1; i <= 5; i++) {
            pattern += "*";
            System.out.println(pattern);
        }
    }
}
```

Output:

```
*
**
***
****
*****
```

4.Challenge: Demonstrate precedence of concatenation and addition

Code:

```java
public class ConcatenationPrecedence {
    public static void main(String[] args) {
        int a = 5, b = 10;
        System.out.println("Sum: " + a + b);
        System.out.println("Correct Sum: " + (a + b));
```

```
        }
    }
}
```

Output:

Sum: 510

Correct Sum: 15

5. Challenge: Accept input strings and concatenate with formatting

Code:

```java
import java.util.Scanner;

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

        System.out.print("Enter your first name: ");
        String firstName = sc.nextLine();

        System.out.print("Enter your last name: ");
        String lastName = sc.nextLine();

        System.out.print("Enter your college name: ");
        String college = sc.nextLine();

        String result = "Hello, my name is " + firstName + " " + lastName + " and I study at " + college + ".";
        System.out.println(result);
```

```
            sc.close();

        }

    }
```

Output:

Enter your first name: Sreevani

Enter your last name: Dasari

Enter your college name: AITSR