Loops in JS

Loops are used to execute a piece of code again & again

for Loop

```
for (let i = 1; i <= 5; i++) {

    console.log("apna college");

}
```

Loops in JS

Infinite Loop : A Loop that never ends

Loops in JS

while Loop

```
while (condition) {

    // do some work

}
```

Loops in JS

do-while Loop

```
do {

    // do some work

} while (condition);
```

Loops in JS

for-of Loop

```
for (let val of strVar) {

    //do some work

}
```

Loops in JS

for-in Loop

```
for (let key in objVar) {

    //do some work

}
```

Let's Practice

Qs1. Print all even numbers from 0 to 100.

Let's Practice

Qs2.

Create a game where you start with any random game number. Ask the user to keep guessing the game number until the user enters correct value.

Strings in JS

String is a sequence of characters used to represent text

Create String

let str = "Apna College";

String Length

str.length

String Indices

str[O], str[1], str[2]

Template Literals in JS

A way to have embedded expressions in strings

`this is a template literal`

String Interpolation

To create strings by doing substitution of placeholders

`string text ${expression} string text`

String Methods in JS

These are built-in functions to manipulate a string

- **str.toUpperCase( )**

- **str.toLowerCase( )**

- **str.trim( )** *// removes whitespaces*

String Methods in JS

- **str.slice(start, end?)** *// returns part of string*

- **str1.concat(str2)** *// joins str2 with str1*

- **str.replace(searchVal, newVal)**

- **str.charAt(idx)**

Let's Practice

Qs1. Prompt the user to enter their full name. Generate a username for them based on the input. Start username with @, followed by their full name and ending with the fullname length.

eg: user name = "shradhakhapra" , username should be "@shradhakhapra13"