

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

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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.

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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[0], 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"

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