

JAVASCRIPT

LOOPS

Loops are used to execute a piece of code again and again.

For loop: based on no of iterations

Initialization, condition, updation

While loop : based on condition

Do-while : atleast one run

GUESS NUMBER :

```
1  let guess=20
2  let user=prompt("Enter number to guess:" )
3  while(user!=guess){
4      user=prompt("wrong guess try again :")
5  }
6  window.alert("congratulation correct guess")
```

STRINGS:

Creating string -> let str="tnr"

String length -> str.length

String indices -> str[0],str[1],str[2]

Template literal → ` a way to have embedded expression in strings`

String interpolation -> to create strings by doing substitution of placeholders

`string text \${expression or variable} string text`

```
1  i=0
2  console.log(`i am always number ${i+1}`)
```

```
i am always number 1
```

Escape characters :

\n -> new line

\t -> tab space

String methods :

Str.toUpperCase() -> uppercase letters

Str.toLowerCase() -> lowercase letters

Str.trim() -> remove whitespaces

```
1 let str="sRm University  "
2 console.log(str.toUpperCase(),"1")
3 console.log(str.toLowerCase(),"1")
4 console.log(str.trim(),"1")
```

SRM UNIVERSITY	1
srm university	1
sRm University	1

Str.slice(start,end) -> return part of string

Str1.concat(str2) -> joins str2 with str1

Str.replace(searchvalue,newval)

Str.charAt(index)

```
6 str1="SRM"
7 str2="University"
8 console.log(str2.slice(3,6))
9 console.log(str1.concat(str2))
0 str1.replace("S","K")
1 console.log(str1)
2 console.log(str1.charAt(0))
```

ver
SRMUniversity
SRM
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