

Chapter 3 - Loops & functions

We use loops to perform repeated actions.

For example - If you are assigned a task of printing numbers from 1 to 100, it will be very heatic to do it manually. Loops help us automate such tasks

Types of loops in JavaScript

for loop → loop a block of lode no of times for in loop → loops through the Reys of an Object for of loop → loops through the Values of an object while loop → loops a block based on a specific Condition do-while loop → while loop variant which runs atleast once

The for loop

The syntax of a for loop looks Something like
this

for (statement 1; statement 2; statement 3) { 11 code to be executed

-> statement 1 is executed one time

→ Statement 2 is the condition base on which
the loop runs (loop body is executed)

→ Statement 3 is executed everytime the loop body
is executed

Quick Quiz: Write a sample for loop of your choice.

The for-in loop tooks like this for [key in object] {

11 code to be executed

3 Quick Quiz: Write a sample program demonstrating Note - For - in look also work with arrays which will be discussed in the later videos The for- of bob for- of bob looks like this

The syntax of for- of bob looks like this

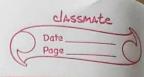
For every iteration

For (Variable of iterable) & L. Ihrable data Structure like Arrays,

1/ Code Strings et. Quick aug: Write a sample program demonstrating The while loop looks like this & While (condition) {

11 Lode to be executed

3 Note: If the condition never becomes false, the loop will never end and this might crash the runtime.



Quick duig: Write a sample program demonstrating The do while loop's syntax looks like this: 11 code to be executed => Executed at least once while (condition) Quick Quiz: Write a sample program demonstrating Functions in Java Script
A Java Script function is a block of rode designed to perform a particular task. Syntax of a function looks something like this: function my func () { function binod Func (parameter 1, parameter 2) {

1/ Code

3

Function with parameters Here the parameters behave as local variables

	binod func (7,8) = Tunction Invocation	
Tunction invacation in a man to the		
Function invocation is a way to use the code inside the function		Hal
	The function	
	Add to be a section of the section of the	0
_	A function can also return a value The is "returned" back to the caller	Value
	is "returned" back to the caller	
	Will the property in a 1 warm for in the	3
	Const sum = $(a,b) \Rightarrow 2$	27
	Another way to create & let $C = a + b$; use the function return C ; \Rightarrow Returns	
	Another way to create & Return (: > Return	the sum
	7	THE SWILL
	With a function to find mean of 5 number	1
	1 at (1 2)	*
_	let $y = Sum(1,3)$ Console $log(y) \rightarrow Prints 4$	
	(onsole log (y) - Kinks 4	
_		



Chapter 3 - Practice Set

Write a program to print the marks of a student in an object using for loop

Obj = \(\frac{5}{2} \) harry: 98, vohan: 70, aakash: 7}

2 Write the program in Q1 using for in loop

Write a program to print try again until the user enters the correct number.

4 Write a function to find mean of 5 numbers.