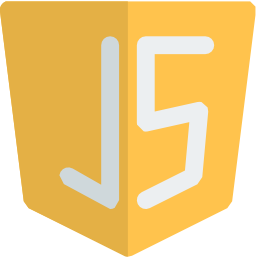


What is JavaScript?



JS is a programming language. We use it to give instructions to the computer.



Setting up VS Code </>

It is a free & popular code editor by Microsoft



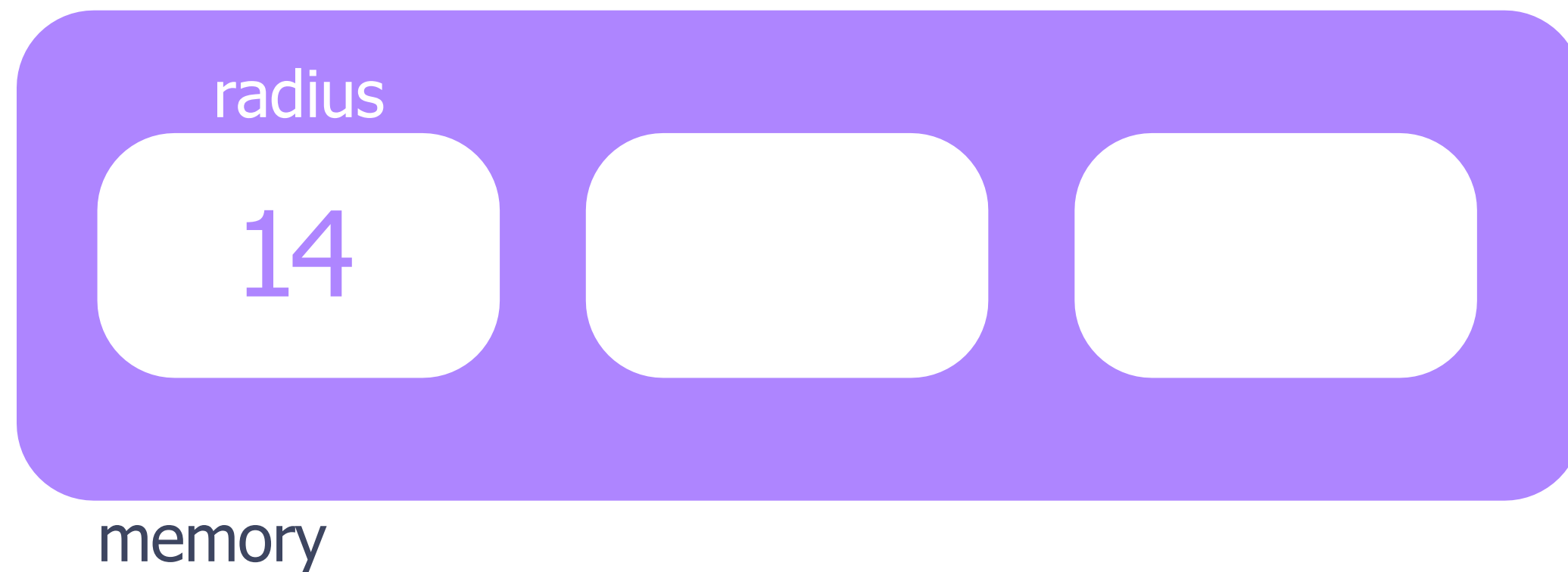
Our 1st JS Code

Console.log is used to log (print) a message to the console

```
console.log("Hi Iam Arun kumar");
```

Variables in JS

Variables are containers for data



Variable Rules

- Variable names are case sensitive; "a" & "A" is different.
- Only letters, digits, underscore(`_`) and \$ is allowed. (not even space)
- Only a letter, underscore(`_`) or \$ should be 1st character.
- Reserved words cannot be variable names.

let, const & var

var : Variable can be re-declared & updated. A global scope variable.

let : Variable cannot be re-declared but can be updated. A block scope variable.

const : Variable cannot be re-declared or updated. A block scope variable.

Data Types in JS

- Primitive Types:

Number, String, Boolean, Undefined, Null, BigInt, Symbol.

- Non-Primitive (Reference) Data Types :

Object , Array, Function , Date

```
const id1 = Symbol("id");
const id2 = Symbol("id");

// Normal Number (Max safe limit)
console.log(Number.MAX_SAFE_INTEGER); // 9007199254740991

// Using BigInt
const big1 = 123456789012345678901234567890n; // add 'n' at the end
const big2 = BigInt("987654321098765432109876543210");

console.log(big1 + big2);
// 1111111110111111111011111111100n

// Mixing BigInt with Number is not allowed
// console.log(big1 + 10); // ✖ Type Error
console.log(big1 + 10n);
```