# Introduction to Software Systems (CS6.201)

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### Arrays

Arrays can be defined using the Array keyword; for example,

let iiit = new Array("MS", "BTech", "MTech", "PhD", "Post Doc", "BSc")

They can be indexed as in C and C++, *i.e.*, iiit[i].

If the array is printed, the entries are listed in a comma-separated fashion.

iiit.shift() flushes the first element of the array; iiit.unshift("new") adds
"new" to the beginning.

Similarly, pop() and push() remove and add elements from the end respectively.

#### Maps

A map is similar to an array, but consisting of key-value pairs rather than index-value pairs. The key can be of any datatype.

They can be declared as let newmap = new Map();. Pairs can be inserted in them with the set() function:

newmap.set("key1", value1).set(key2, value2)

#### Frameworks

JavaScript libraries are collections of pre-written JS scripts. A JavaScript Framework is a library in which all the functions are bundled together to work in a certain way.