|  |
| --- |
| **Use of Map in javascript** |
| **Syntax:**  var new\_array = arr.map(function callback(element, index, array) {      // Return value for new\_array  }[, thisArg] |
| **Example:**    const number = [1,2,3,4,5];  const triple = number.map(item => 3\*item);    console.log(triple); |

|  |
| --- |
| **Use of Filter in javascript** |
| **Syntax:**  var new\_array = arr.filter(function callback(element, index, array) {      // Return true or false  }[, thisArg]) |
| **Example:**    const students = [    { name: 'Quincy', grade: 96 },    { name: 'Jason', grade: 84 },    { name: 'Alexis', grade: 100 },    { name: 'Sam', grade: 65 },    { name: 'Katie', grade: 90 }  ];    const studentGrades = students.filter(student => student.grade >= 90);  console.log(studentGrades); |

|  |
| --- |
| **Use of Reduce in javascript** |
| **Syntax:**  arr.reduce(callback[, initialValue]) |
| Example:    const numbers = [1, 2, 3, 4];  const sum = numbers.reduce(function (result, item) {    return result + item;  }, 0);  console.log(sum); // 10      var pets = ['dog', 'chicken', 'cat', 'dog', 'chicken', 'chicken', 'rabbit'];    var petCounts = pets.reduce(function(obj, pet){      if (!obj[pet]) {          obj[pet] = 1;      } else {          obj[pet]++;      }      return obj;  }, {});    console.log(petCounts); |