1. Write a function to convert a number from one base (radix) to another.

Hint: Use one of the built-in functions and toString method of one of the built-in Object Wrappers;

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| function convertBase(*number*, *initialBase*, *changeBase*) {  if ((initialBase && changeBase) < 2 || (initialBase && changeBase) > 36) {  return 'Base between 2 and 36';  }  var num = parseInt(number + '', initialBase);  return num.toString(changeBase);  }  console.log(convertBase('ff', 16, 8));  console.log(convertBase(1000, 2, 8)); |

1. Write a JavaScript function that reverses a number.

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| function reverseNumber(*num*) {  num = num + "";  return num.split("").reverse().join("");  }  var result = reverseNumber(12345)  console.log(typeof result);  console.log(result); |

1. Write a JavaScript function that returns a passed string with letters in alphabetical order.

*Note:* Assume punctuation, numbers and symbols are not included in the passed string.

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| function sortAlphabetOrder(*str*) {  return str.split('').sort().join('');  }  console.log(sortAlphabetOrder("webmaster")); |

1. Write a function to **alphabetize words** of a given string. Alphabetizing a string means rearranging the letters so they are sorted from A to Z.

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| function alphabetizeString(*inputString*) {  return inputString.split('').sort().join('').trim();  }  console.log(alphabetizeString('Rebublic Of Serbia')); |

1. Write a function to split a string and convert it into an array of words.

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| var stringToArray = function (*input*) {  var separator = " "  return input.trim().split(separator)  }  console.log(stringToArray("John Snow")) |

1. Write a function to convert a string to its abbreviated form.

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| var abbrevName = function (*inputString*) {  var splitNames = inputString.trim().split(" ");  if (splitNames.length > 1) {  return (splitNames[0] + " " + splitNames[1].charAt(0) + ".");  }  return splitNames[0];  };  *//* Test  var input = "John Snow";  var result = abbrevName(input);  var expectedResult = "John S.";  *//* Output  console.log(abbrevName("John Snow")); |

1. Write a function that can pad (left, right) a string to get to a determined length.

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| function formattedString(*pad*, *inputString*, *padPosition*) {  if (typeof inputString === 'undefined')  return pad;  if (padPosition == 'l') {  return (pad + inputString).slice(-pad.length);  } else {  return (inputString + pad).substring(0, pad.length);  }  }    console.log(formattedString('0000', 123, 'l')); *//* 0123  console.log(formattedString('00000000', 123, '')); *//*12300000 |

1. Write a function to capitalize the first letter of a string.

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| var capitalize = function (*str1*) {  return str1.charAt(0).toUpperCase() + str1.slice(1);  }  *//* Test  var input = "js string exercises";  console.log(capitalize(input)); |

1. Write a function to hide email addresses to protect them from unauthorized users.

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| var hideEmail = function (*userEmail*) {  var avg, splitted, emailName, emailDomain;  splitted = userEmail.split("@");  emailName = splitted[0];  emailDomain = splitted[1];  avg = emailName.length / 2;  emailName = emailName.substring(0, (emailName.length - avg));  return emailName + "...@" + emailDomain;  };  *//* Test  var input = "somerandomaddress@example.com";  var result = hideEmail(input);  var expectedResult = "somerand...@example.com";  assertTrue(result.indexOf("...") != -1)  assertTrue(result === expectedResult);  *//* Output  console.log(hideEmail("somerandomaddress@example.com")); |

1. Write a program that accepts a string as input and swaps the case of each character. For example, if you input 'The Quick Brown Fox', the output should be 'tHE qUICK bROWN fOX'.

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| function replaceCase(*str*) {  var UPPER = 'ABCDEFGHIJKLMNOPQRSTUVWXYZ';  var LOWER = 'abcdefghijklmnopqrstuvwxyz';  var result = [];  for (var x = 0; x < str.length; x++) {  if (UPPER.indexOf(str[x]) !== -1) {  result.push(str[x].toLowerCase());  } else if (LOWER.indexOf(str[x]) !== -1) {  result.push(str[x].toUpperCase());  } else {  result.push(str[x]);  }  }  return result.join('');  }  console.log(replaceCase('The Quick Brown Fox')); |