

Lab 8: Phone Number Formatter

Description

I will create a textbox that automatically formats a phone number as “###-###-####”. Input will be the characters the user will enter and what will be outputted are hyphens and spaces. This will be done with one variable and modified to include the formatted number.

Solution

Creating a phone number formatter will be done by making an input text box with HTML and then writing JavaScript code. The JavaScript code will not allow non-digits to be entered in the text box and will only allow 9 digits so it is a legal number. This will be done by applying a function to a “keyup” event. Then, the input number will be modified to include a space and a hyphen before the fourth and seventh number is inputted.

Source code (See [lab8.html](#))

```
<!DOCTYPE html>
<div>
  <h1><center> Enter a number </center></h1>
  <center><input type="text" id="phoneNum"/></center>
</div>

<script>
document.getElementById('phoneNum').addEventListener('keyup', function(e) { //keyup for event
  var phoneNum = document.getElementById('phoneNum');
  var charCode = e.keyCode;
  phoneNum.value = phoneFormat(phoneNum.value);
});

document.getElementById('phoneNum').value = phoneFormat(document.getElementById('phoneNum').value);

function phoneFormat(input) { //g will replace all matches of non digits with empty string
  input = input.replace(/\D/g, ''); //so non digit characters cant be entered
  input = input.substring(0, 10); //only 9 numbers are allowed
  var size = input.length;
  if (size == 0) {
    input = input;
  } else if (size < 4) { //adds space after fourth number is entered
    input = ' ' + input;
  } else if (size < 7) {
    input = ' ' + input.substring(0, 3) + ' - ' + input.substring(3, 6); //add a hyphen after third num
  } else {
    input = ' ' + input.substring(0, 3) + ' - ' + input.substring(3, 6) + ' - ' + input.substring(6, 10); //add a hyphen sp
  }
  return input;
}
</script>
</html>
```

Enter a number

123 - 4

Enter a number

123 - 456 - 7

Enter a number

123 - 456 - 7890