JS JavaScript Tutorials-While

What is a While Loop?

A while loop is used to execute a chunk of code as long as a certain condition is true. So we could create a loop that can easily count to 10 form 0 by doing the following:

```javascript
var text = "";
var i = 0;
while (i < 10) {
    text += "<br> Number: " + i;
    i++;
```
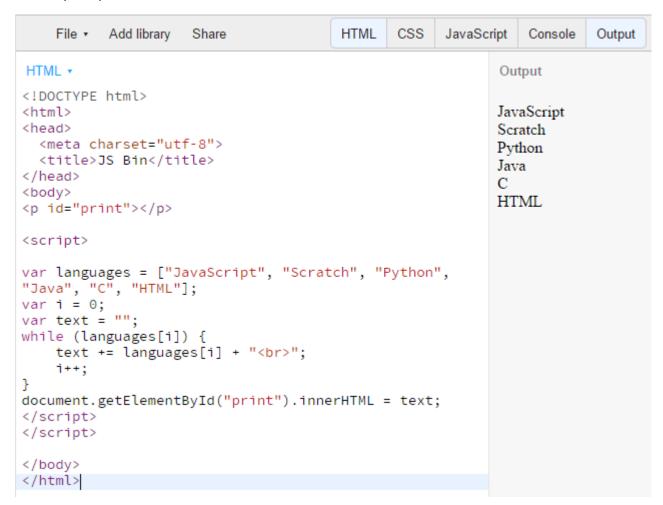
Here, we create a text variable that will contain our print out and a variable for the initial value of our count. Then we have our while loop, in this we set the condition so in this case whilst i is less than 10. We then set the text variable to contain a break tag so that the text is printed on a new line, a bit of text and then the value of i. The value of I is then incremented by 1 (1 added on) so we can get the next value. And so we get something like this:

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We can also use a while loop to print values of an array! (see array tutorial if you are not familiar with arrays!) Here we have an array of programming languages and we are going to use a while loop to go through all of the items in the array and print each one.

```
File ▾   Add library   Share          HTML   CSS   JavaScript   Console   Output

HTML ▾                                              Output
<!DOCTYPE html>
<html>                                              JavaScript
<head>                                              Scratch
  <meta charset="utf-8">                            Python
  <title>JS Bin</title>                             Java
</head>                                             C
<body>                                              HTML
<p id="print"></p>

<script>

var languages = ["JavaScript", "Scratch", "Python",
"Java", "C", "HTML"];
var i = 0;
var text = "";
while (languages[i]) {
    text += languages[i] + "<br>";
    i++;
}
document.getElementById("print").innerHTML = text;
</script>
</script>

</body>
</html>
```

What happens here is the use of the `i` value that is incremented is assigned to as the value in the array to be printed!

TRY THIS!!!!

Compare While loops with For loops, can you see the difference?