Text

Description automatically generated

Here we have a for loop that iterates 10 times, increasing index from 0 to 9



Console.log(`var index withoutSetTimeOut`) executes first printing that string and index from 0 to 9

Text

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The next step is:



Here we print index asynchronously 10 times. SetTimeout functions runs after for loop is completed. Those 10 functions are called separately but they share the same index defined globally

Table

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Text

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Here we have a loop that iterates 10 times, but index is defined by using let keyword, wich has a local scope



Console.log(‘let index withOutSetTimeOut’) is executed first printing the string and index from 0 to 9

Text

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The next step is:



Here we print index asynchronously, but this time scope of the ‘index’es in callbacks is local, those 10 functions setTimeout are called separately with their own ‘index’

A picture containing text

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