

Lab 08

Question 1

1. What is LibUV?

LibUV is a cross-platform open-source library written in C that support NodeJS handle asynchronous IO operations.

2. Explain the difference between `setImmediate(f)` and `setTimeout(f, Time)`?

<code>setImmediate(f)</code>	<code>setTimeout(f, Time)</code>
Append callback f to queue and execute it asynchronously	Append callback f to queue after Time seconds and execute it asynchronously
The callback is appended to Check queue	The callback is appended to timer queue
Not a standard Javascript, only supported by NodeJs	Standard JavaScript
Callback is pushed directly to queue	Callback is handled by LibUV/WebAPI scheduler and is pushed to queue once it is expired

3. Explain the difference between `process.nextTick(f)` and `setImmediate(f)`?

<code>setImmediate(f)</code>
Check queue
Less priority

Question 2

`nextTick 1`

`Promise.resolve 1`

`Promise.resolve 2`

`nextTick inside Promise`

this is `setTimeout`

this is `setImmediate 1`

this is `setImmediate 2`

`Promise.resolve inside setImmediate`

`readableStream close event`

`// data of input.txt`

this is `setTimeout`