Day 2 Written Exercises

**1.Explain why do we want sometimes to use setImmediate instead of setTimeout?**

*Dependent on the priority order we want decide which one to use, both of functions are part of the libuv callback queue. setTimeout is placed in the timers queue and setImmediate is placed in the check queue. setTimeout is executed before setImmediate because the timer queue is loaded first in the v8 engine ones the stack is empty and there is nothing to be pushed from the nextTick queue(empty) and the promise queues are all empty.*

**2. Explain the difference between process.nextTick and setImmediate?**

*nextTick has the priority over everything else. Ones the V8 engine is free or the stack is empty the event loop is paused at this moment and nextTick function is pushed to the stack, after this function is executed the event loop will resume. setImmediate is placed in the check queue which will wait until the priority queue and promises queue are empty and the event loop resumes then it starts with what ever function in the queues before the check queue is finished then this setImmediate function will be pushed to the stack.*

**3.Name 10 core modules that Node provides by default**

buffer,

fs,

http,

https,

module,

net,

os,

path,

querystring,

readline,