#T133. What is node, write in simple plain english.

* Node is runtime environment built on top of v8 engine and v8 engine created by Google.
* It is a single threaded programing Lang.
* It is a event driven
* It is asynchronous in mechanism.
* It is I/O based
* It is non-blocking
* It is works on event loop
* Node is very essential (suitable) for I/O applications.
* All the web applications are I/O applications
* Single threaded means it can utilize one thread normally cpu has two thread but it can use utilize one thread because of that it works very fast.
* Non-Blocking is First class Citizen in Node.js.

#T134. What is an event loop, write in a simple plain english.

* It keeps on repeating itself whenever there is execution happens.
* It has 6 phases every iteration goes to all the 6 phases and then event loop restart again
* It depending upon the the callback type to go in which phase in event loop.

#T135. What are the diffierent phases of event loop, explain in details?

The 6 phases are:

1. Timer
2. Pending callbacks
3. Idle / prepare
4. Poll
5. Check
6. Closing callback

* It performed in queue manner and follows first in first out.
* Timer: whenever you write something in set timeout or set interval so this timeout callback function will added to the timer queue and event loop will wait for the timer expired. Once it is expired eventloop get picked and execute it.
* Pending callback: Which is used by system e.g. TCP connection callback will registered here and event loop run all the callback one by one.
* Idle/prepare: In this event loop do nothing it is used in internal use.
* Poll: Poll its very imp where most operation can performed it checks i/o completed or not if yes it run the callback.
* Check: Whenever there is a any function or method is added it goes In setImmediate it will added in check queue
* Closing callback: Once it is complete it will goes to closing phase.