1. **What is node.js?**a. Node.Js is javascript run time (nodejs is build on js which add some feature to it)  
   b. It is javascript on servers. (any machine)  
   c. Nodejs uses V8 (which is js engine built by GOOGLE) to run js in the browser. Engine take javascript code and compiles it to machine code(same thing is done by browser too) which is run on machine/computer  
   d. Due to NodeJS we can work with local files which was not possible before reason browser do not allow that due to privacy   
     
   Nodejs make javascript to run outside of the browser (on computers)
2. **Installation of NodeJs**a. Download latest version of nodejs from nodejs.org and install it.  
   b. We need nodeJs to install in order to run javascript code with nodejs.  
   c. to check installation – open cmd & run node -v
3. **First Project in Node**a. Create a new folder and open in VS Code  
   b. Create .js file and write some js code  
   c. to run – open terminal and write cmd – node <file-name.js>
4. **Rule and usage of Node**a. Javascript on server (Nodejs is js runtime as normal programming language)  
   b. node in a server which used to communicate with DB, User authentication. Validate inputs and some business logic.  
   c. User can not access server-side code directly.  
   d. in node, we just not write code for server which is running on server. We write a server ourself, the code which take incoming request and route them to other code and it handle responses too.