Role - full Stack Web Developer Name - Sandwith Singhal - Mode js Cheat-Sheet Event - Doison Architecture Node js follows an event -driven architecture. Events trigger callbacks. · Handle multiple Connections simultaneously when one connections is waiting for data, Node j's Can handle other requests without blocking. · Verform I/o operations efficiently. on. It triggers a callback once the operation completes. Heynch ronous Programming Node is is asynchronous by default. Code execution continues without waiting for Ilo operations or functions · Callbacks - timetions passed to be executed when an event. function get User (i'd, callback) f set timeout (1) => & console log ('Reading from a db'); callback (fid: id, wername: "Sandy" 3); · Promises - Objects representing the sen eventual completion of an asynchronous operations.

```
Example
    const p = new Promise ( resolve, reject) => of
              set Timeout() => {
                 mesalve (1);
               5,2000);
        . then (result => console. log ( *Result', result));
catch (cor => corneals.log ( error musage));
      Syntatic sugar to write asynchronous code in a more synchronous like style.
· Hyne / Await
           async function disklay () ?
                   const user = await get user (1);
consali. log (user);
               3 consolilog (eor);
    npm is the default package manager for Node is. It allows you
· Install packages -> Reusable module of code publised by Node is
· Marroge defendencies -> Packages required by your project.
· Publish your own packages -> Share your code with the Node is
                             Community.
```

Modules are self-contained units of code that can be reused throughout your application.

Common JS Modules

- · module. exports: Used to export code from a module.
- . require: Used to import code from other modules.

Example: file1.js

function say Hello () of console. log ("Hello!");

module. exposts = sayHello;

file2. js const sayHello = require ('./file1'); sayHello ();