Q1) what is bundlers :- vite, parcel, webpack

* creat react app use :- parcel,

* NPM :- why Need of NPM
i) manage packages.
ii) Ans:- In React app there is a lots of pawer, and to handle this all power use NPM, powers like, parcel, Bundler, optimization

dev dependancy
* npm install -D parcel
for development
purpose
Not for
Production)

* -D is a dependancy of a parcel bundler what we need in our app

* Node module is a database of react app.

* If we put our app into github don't use a Node_module files because in package-lock-json all the properties ~~exits~~ axists so we can use same ~~by~~ Node
or
install
Module file by using package-lock

* Dependencies:- whatever we use in our project is Dependencies
eg:- Reat js.
React DOM
any framework, library.

*

* Devdependency :- for our project use whatever packages required in development fo phase not in Production and testing.

eg:- parcel, webpack

All Need for react Multipower use parcel.

i) install parcel for powerful our reactapp.
    npm install -D parcel

ii) Install Dependencies
    1) npm install react
    2) npm install react-Dom

iii) To start our app use
    npx parcel index.Html → Start point

* parcel given server to us

npx parcel index.HTML
↑ ↑ ↑
exicute parcel with entry point.

* Normal jsx does Not understand the meaning of import thats why parcel give an error.
So we have to tell the JS file it is not normal file, it is module.

```
<script type="module" src="
index.HTML" (script>
```

* Now the current update in reactdom ——> Re reactdom /client

* HMR — HoT module Realod for Reloading auto save changes.
by parcel.

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* file watcher algorithm — written in c++ use by parcer for auto reload.

benefit

* parcel — Bundling, Minify, clear code, Superfast build algorithm, Dev and production build, img optimization, caching by development, HTTPS on Dev, port Number.

* parcel.cash push on git

* npm run build = for production app.

* dist = minimize version of source code, dist actully contain all the prody source of code of your file for production level.