What is react?

It's fast because of virtual Dom....it reloads only that part which is chnged...compares between physical and virtual Dom and reloads that only....frontend library it is used with html css js

What is virtual Dom and why it is faster?

Why react is faster than frameworks like angular/vuejs?

How do you create react application?

-npx create react app creates new react application.

18.0 is the latest version we have used.

What is package.json?

-there are two types of dependency in it. It has dev dependency and dependency

Diff between them is

Devdependency-Those on machine and used for development.

Dependencies -are deployed inside the package.

Scripts is also present in package.json.

How do you build your react application?

-npm build or yarn build

Diff between npm and yarn?

Npm is node package manager

-Yarn is tool is faster than npm

-Yarn uses caching so it is faster

-Prefer yarn

What is the component oriented architecture?

-you are building applications with the help of various components.

Components can be reused.

It take less time.

What is jsx and advantages?

What is difference between class and functional component?

[28/09/22, 7:23:21 PM] Dhananajay: We use react hook i.e functional component.

[28/09/22, 7:23:21 PM] Dhananajay: Why to prefer functional component over class component?

[28/09/22, 7:23:21 PM] Dhananajay: What is react hook?

- it is a special function it can be of custom or system tag.

What are types of hooks?

System and custom

What is the difference between state and props?

-Props are properties are send from parent to child.its immutable

-State are properties are added by same component inside its own component for itself.state is mutable.

When you change state it also reloads that portion of component.

What if a component wants to update multiple components at a same time?

There is redux and context api

What is context api?

It is used for updating multiple components but it is limited to few components.

Whereas redux has no limitation. It's global.

What is redux ?

It's a global state management for sharing data for all components of your application. You can update it from anywhere from your application.

Reduxjs-deprecated ,redux toolkit (uses slicing mechanism)

How react handle navigation?

react-router is used for navigation.

How to pass parameters while moving from one component to another?

-react hook and router are used for moving.

How to consume rest APIs?

Fetch and axios are options you have.

Fetch and axios which is better?

Axios have multiple properties which fetch don't have.

Diff between authentication and authorisation

-User is valid or not

- for checking valid user has got permission for application or not.

How do you implement authorisation?

Using tokens

Jwt tokens-json web token for authorisation.

What is rest?

\*\*Express\*\*\*

What is the backend and how it is different than frontend?

What is the full stack development?

What are the options to develop backend using nodejs?

Express or fastify or adv architecture are nestjs or happi

Fastify is faster.

Express is simple

What is express?

What is middleware?

It's function which is request response.used for authentication purpose it's called before every route gets called

How do you connect express application to the database?

Using Database drivers along with application.

What is rest?

What is graphQL?

Query and mutation.

What is orm and which orm you can use in express?

Object relation model mapping between database and classes.

For MySQL : sequelize(orm) mongo: mongoose(orm)

Typeorm: supports all databases almost covered.

What is confidentiality and how do you achieve it in express?

Cryptography :crypto-js

What is the difference between authentication and authorisation?

How do you create jwt token?

How do you deploy the express application?

How do you implement logging in you application?

Morgan is used

Assignment 2) Let's say you are given a string. You can get many strings (combination) out of the given original string if you rearrange characters of original string.

String is Palindromable if any one combination is palindrome.

Example 1:

Original String: NINIT

Combinations: NINIT, NNIIT,IINNT,ININT,IITNN,NITIN,INTIN,INTNI,NTNII,NNTII and so on

Original string is Palindromable because two palindrome can be made out of it.

Example 2:

Original String: NINNIT

Combinations: NINITN, NNINIT,IINNNT,INNINT,INITNN,NNITIN,INTNIN,INTNIN,NTNINI,NNTINI and so on

Original string is NOT Palindromable because NO palindrome can be made out of it.

Question:

Write a program to check it given string is Palindromable or not.