React by thapa technical

React is js library for building user interfaces

Benefits –

1)components base approach

2)uses declarative approach

3)dom updates are handled gracefully in react

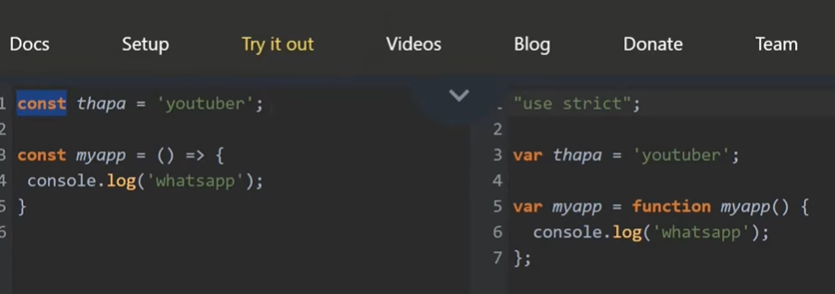
4)reusable code

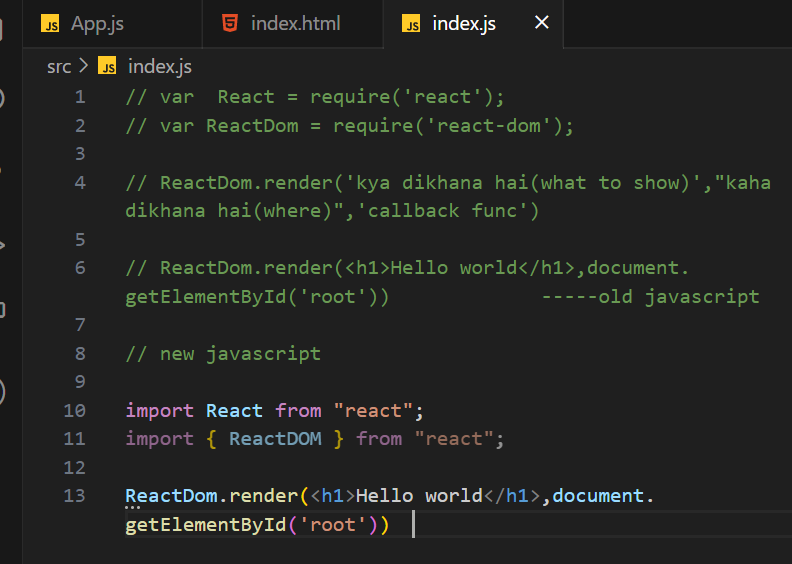
5)react is designed for speed, speed of implementing the application simplicity and scalability

5)

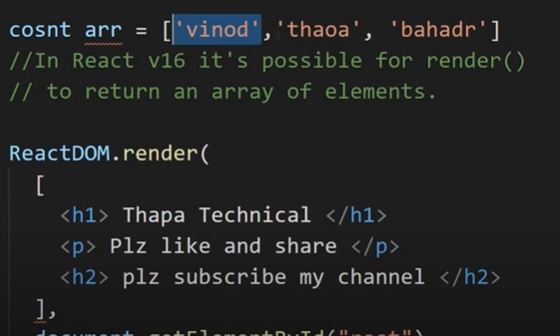
Webpack – jo bhi files hai uska ek bundle bana kar rakhata hai

Babel – js complier, jo modern js ko old(browser samjata )js me convert karta hai





6)jsx – javascript xml

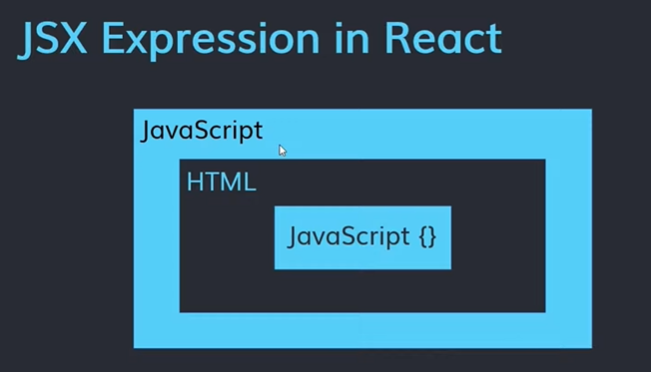
7)  to add multiple elemets in render 1)make array 2)react fragment 3)div

8)react fragment –

Jab hum multiple elements bind karne ke liye div use karte hai, to vo id=root div ke andar ek aur div create karta hai

Benefits –1)thoda bohot faster 2)less memory consuming 3) reduce complexity while css

10)jsx expression in react -- for dynamic variable we use {}



11)template literals - -

 ---backticks

12)

13)jsx attributes - -same as html attributes

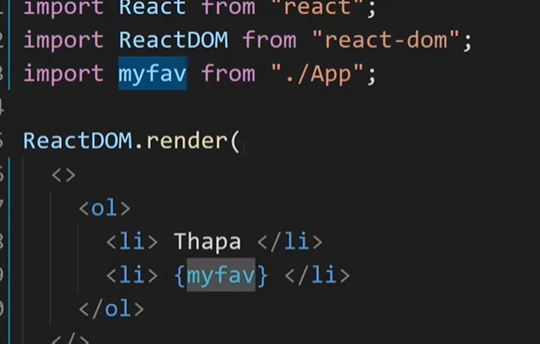
14)css – inline css 

15)google font-

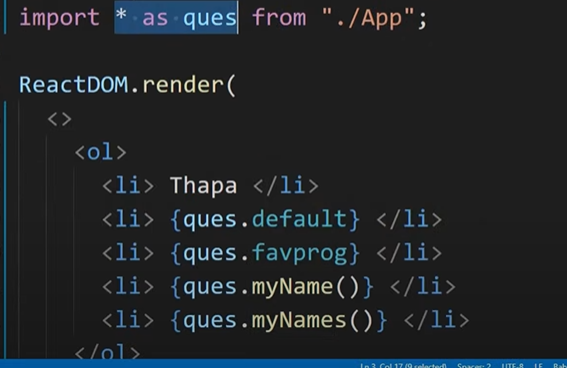
16) 

18)Componentes –

19)challenge –

20)import export – we can change name of import when its default.

Je export default nasel tyala {import} karav laagel. 

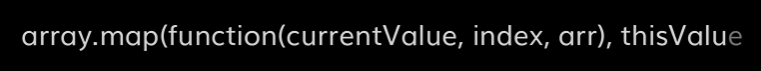
 sagle sobat import karnyasathi

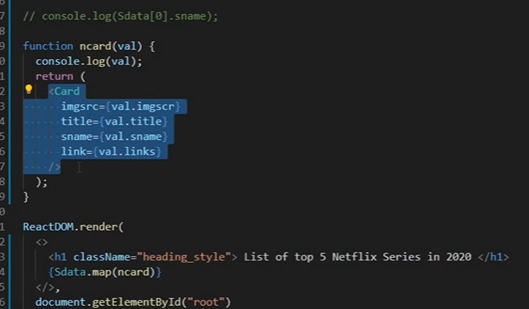
21)challenge –

22) props in react –props ==properties

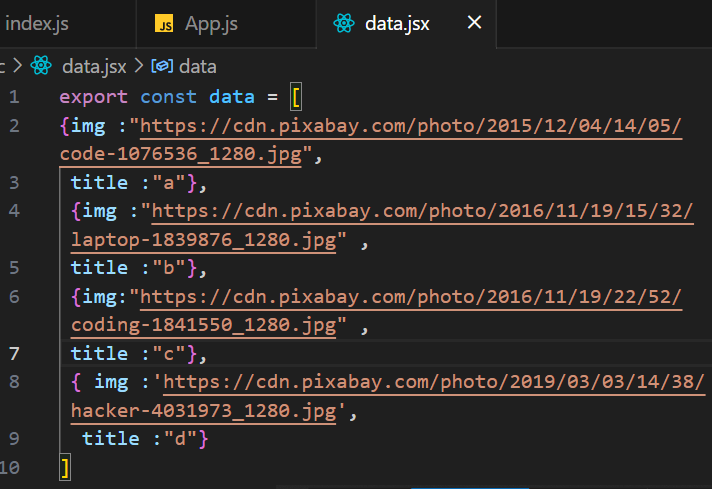
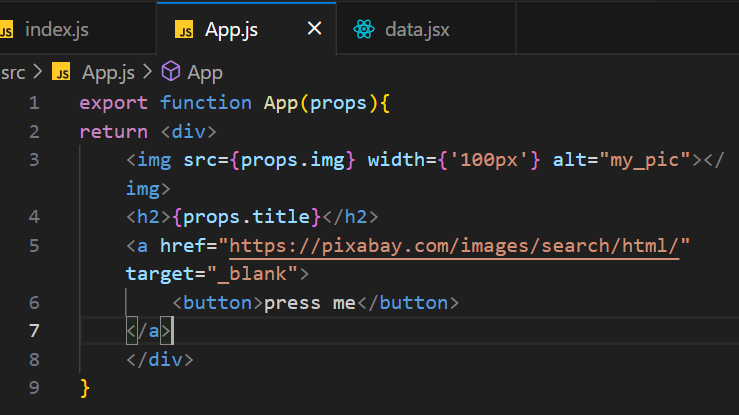
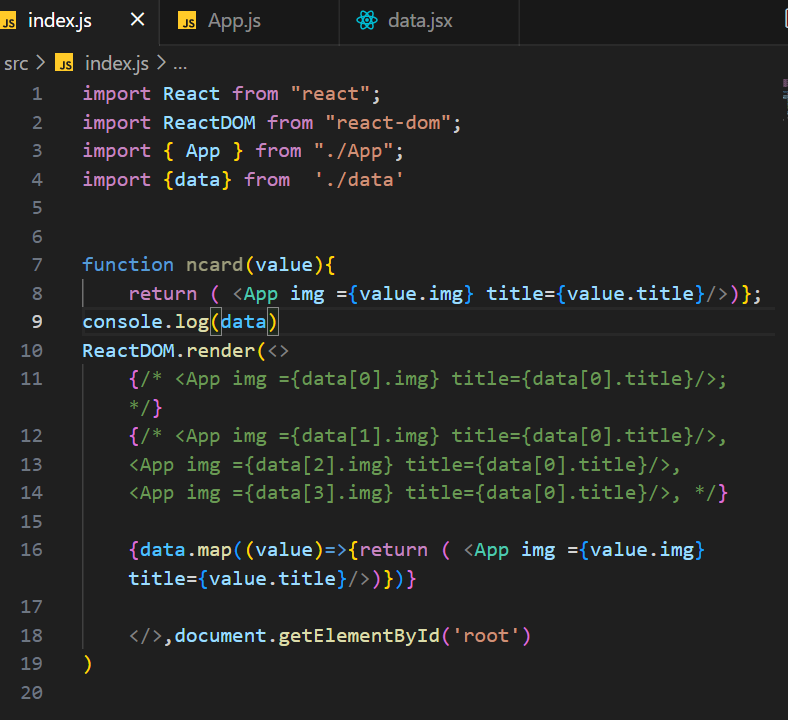
23)arrays – store data in arrays

24)array.map() –





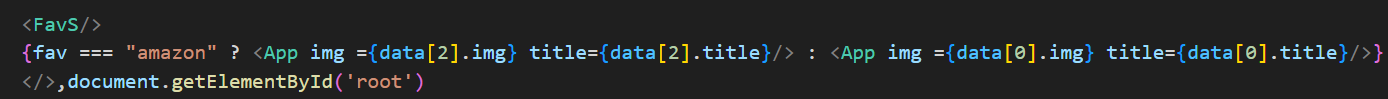
Fat arrow function – (=>)



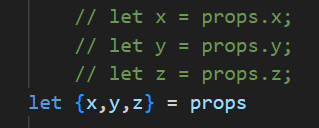
25)

26)conditional rendering - -

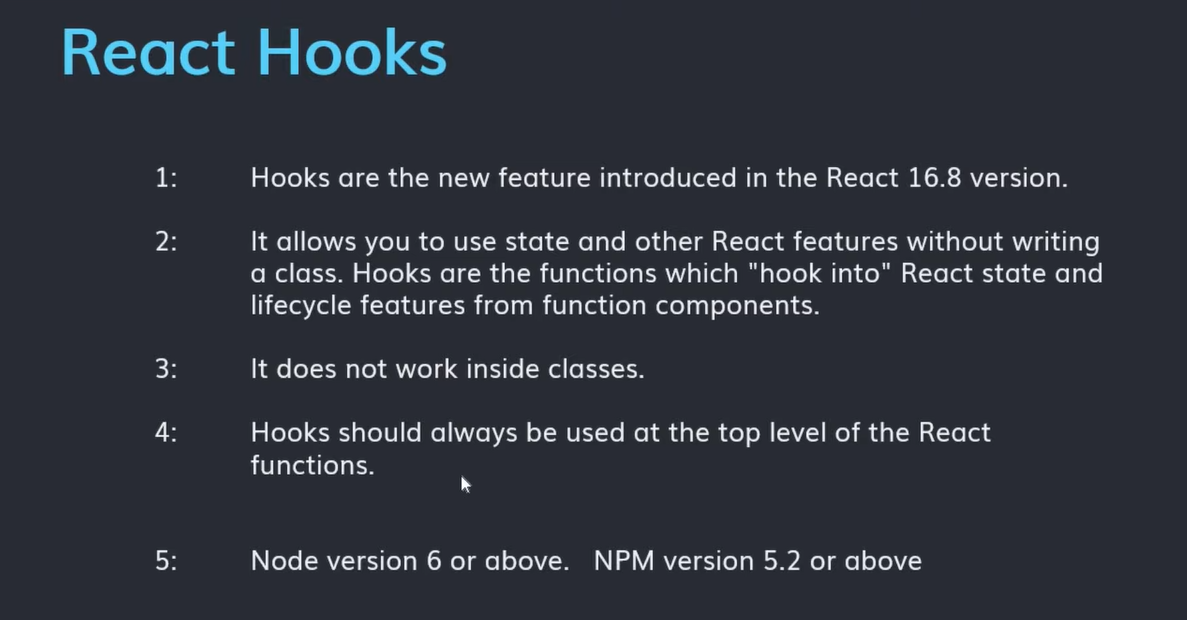
27)ternary operator - -



28) slot machine challenge –

Object DE structuring --

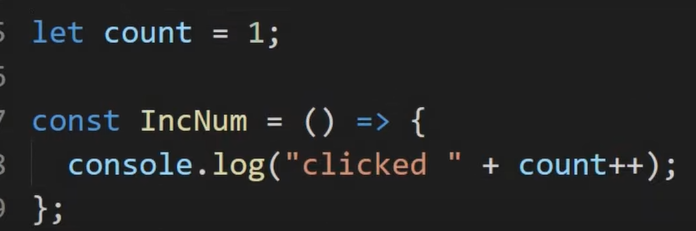
30)Hooks-



React uses camelCase.

 A picture containing text, screenshot, font, software

Description automatically generated

 A screenshot of a computer

Description automatically generated with medium confidence -count++ not works with 1, it works in console.

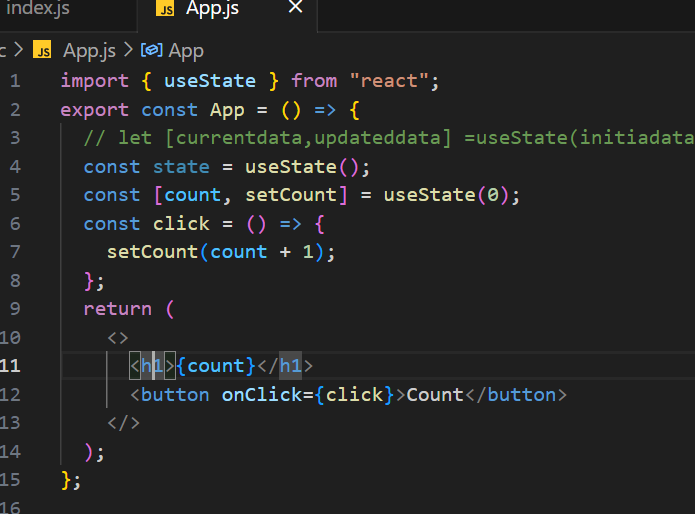
Problem with functional compo –

We can’t change the value of 1 using button Ie we can’t change its state, it is same, that’s why developers shift to class components but it is also lengthy

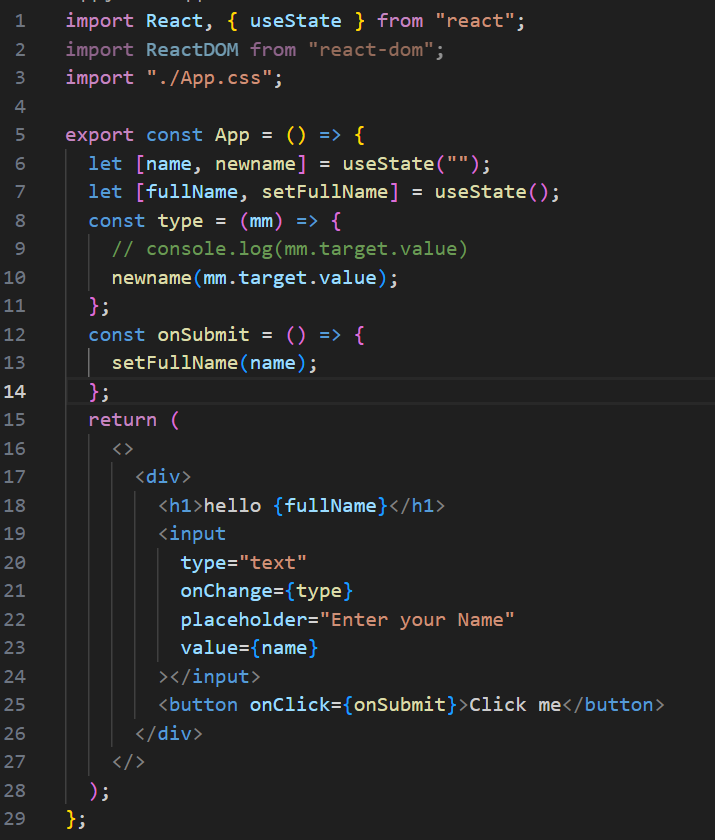
Now replace with hooks

1)usestate hook – state change karnyasathi

State – color,width,face value,static - dynamic

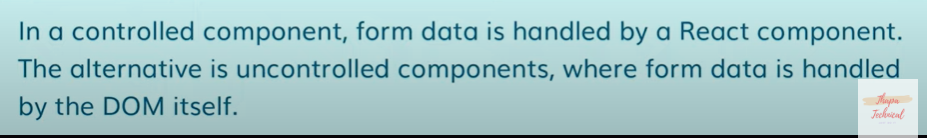


33) handling event - -

34)forms – A purple background with white text

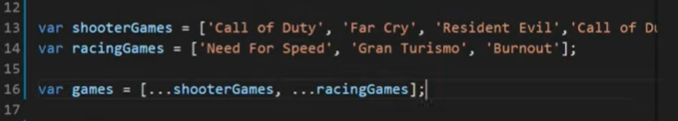
Description automatically generated with low confidence

Controlled component –



36) handling complex multiple input form -

38)spread operator – array copy karnyasathi

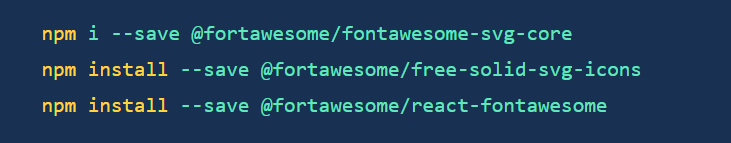


39)

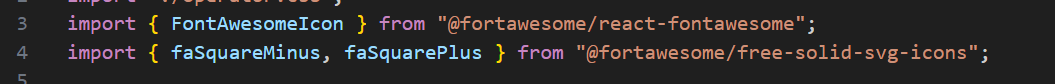
40)material UI –

Competitor of fontawesome

Fontawesome –

Install -

Import –



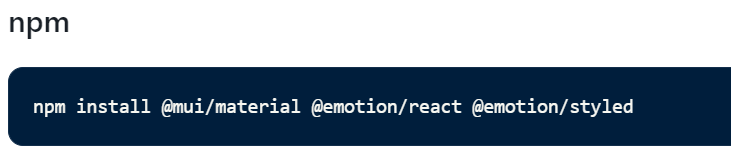
Use-

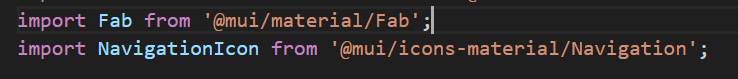
A computer code with text

Description automatically generated

It is an react library which is use to simplify coding, giving direct code access to component like button,icons,checkbox and many more

Steps to use-

1 ) install 

2)import what you want

44)node package manager –(npm) - -

45)bootstrap:

Bootstrap is a free and open-source front-end framework for developing websites and web applications. It is based on HTML, CSS, and JavaScript. Bootstrap includes a number of features that make it a valuable tool for web developers, including:

* A grid system for creating responsive layouts
* A library of pre-built components, such as buttons, forms, and navigation bars
* A set of JavaScript plugins for adding functionality to websites, such as modals and tooltips

We can add css using classname in bootstrap, no need to create separate css file