**npx create-react-app --template typescript**

**https://create-react-app.dev/docs/adding-typescript**

import React  from "react";

interface IFirst

{

  name : string;

  age: number;

}

const First= (props:{name:string})=>

{

  return(

  <div> <h1> Hello {props.name} </h1></div>

  );

}

export default First;

Callig Part

import React from 'react';

import logo from './logo.svg';

import './App.css';

import First from './First';

function App() {

  return (

    <div className="App">

      <First name="Ajay" age={76}/> </div>

  );

}

export default App;

import React  from "react";

interface IFirst

{

  name? : string;

  age: number;

}

const First= (props:IFirst)=>

{

  return(

  <div> <h1> Hello {props.name || "No user"}, Your Age is {props.age} </h1></div>

  );

}

export default First;

import React  from "react";

interface IFirst

{

  name? : string;

  age: number;

}

const First= (props:IFirst)=>

{

  return(

  <div style={{border:"2px solid red" , margin:"3px"}}> <h1> Hello {props.name || "No user"}, Your Age is {props.age} </h1></div>

  );

}

export default First;

import { stat } from "fs";

import React  from "react";

type IFirst =

{

  name? : string;

  age: number;

  status : string

}

const First= ({name, age, status} : IFirst)=>

{

  return(

  <div style={{border:"2px solid red" , margin:"3px"}}> <h1> Hello {name || "No user"}, Your Age is {age} </h1>

  Your status is {status}

  </div>

  );

}

export default First;

import React from 'react';

import logo from './logo.svg';

import './App.css';

import First from './First';

function App() {

  return (

    <div className="App">

      <First name="Vijay" age={76} status="coder"/>

      <First name="Ajay" age={76} status="coder"/>

       <First age={76} status ="tester"/> </div>

  );

}

export default App;

Children

import { stat } from "fs";

import React  from "react";

type IFirst =

{

  name? : string;

  age: number;

  status : string

  children? : string

}

const First= ({name, age, status, children} : IFirst)=>

{

  return(

  <div style={{border:"2px solid red" , margin:"3px"}}> <h1> Hello {name || "No user"}, Your Age is {age} </h1>

  Your status is {status}

  {children}

  </div>

  );

}

export default First;

import React from 'react';

import logo from './logo.svg';

import './App.css';

import First from './First';

function App() {

  return (

    <div className="App">

      <First name="Vijay" age={76} status="coder"/>

      <First name="Ajay" age={76} status="coder"/>

       <First age={76} status ="tester"/>

       <First age={76} status ="tester">

         salary : 30K

         </First>

        </div>

  );

}

export default App;

import React, { FC }  from "react";

// type IFirst =

// {

//   name? : string;

//   age: number;

//   status : string

//   children? : string

// }

// const First= ({name, age, status, children} : IFirst)=>

// {

//   return(

//   <div style={{border:"2px solid red" , margin:"3px"}}> <h1> Hello {name || "No user"}, Your Age is {age} </h1>

//   Your status is {status}

//   {children}

//   </div>

//   );

// }

type IFirst =

{

  name? : string;

  age: number;

  status : string

  children?: React.ReactNode

 }

const First:React.FC<IFirst>= ({name, age, status, children}) =>

{

  return(

  <div style={{border:"2px solid red" , margin:"3px"}}> <h1> Hello {name || "No user"}, Your Age is {age} </h1>

  Your status is {status}

  {children}

  </div>

  );

}

export default First;

TODO

import React , {useState} from "react";

import { callbackify } from "util";

const ToDo = ()=>

 {

   const[todo, settodo] = useState("")

  return(

<div>

  <input

  type="text"

  value={todo}

   onChange ={(e)=>

     settodo(e.target.value)}

     />

 <button name="todo" onClick={()=>console.log("todo")}></button>

</div>

  );

}

import React , {useState} from "react";

import { callbackify } from "util";

const ToDo = ()=>

 {

   const[todo, setToDo] = useState("")

  return(

<div>

  <input

  type="text"

  value={todo}

   onChange ={(e)=>

   {

    setToDo(e.target.value)}

   }/>

 <button name="todo" onClick={()=>console.log(todo)}> To do </button>

</div>

  );

}

export default ToDo;

Using useRef

import React , {useState , useRef} from "react";

import { callbackify } from "util";

const ToDo1 = ()=>

 {

   const inputRef = useRef<HTMLInputElement |  null>(null);

    const[todolist, setToDoList] = useState<string[]>([]);

   const addToDo =()=>

   {

     if(inputRef.current)

     {const todo = inputRef.current.value;

    setToDoList([...todolist , todo]);

     }

    console.log(todolist.length);

    }

  return(

<div>

  <input

  ref={inputRef}

  type="text"

   />

 {/\* <button name="todo" onClick={addToDo} > To do </button> \*/}

  <button name="toadd" onClick={()=> addToDo()}> Add to ToDo List </button>

  <ul>

    {

    todolist.map(item=>

    {

      return <li key={item}> {item}</li>

    })

  }

      </ul>

</div>

  );

}

export default ToDo1;