**Ans 1**:  In the List component, Memo is used to prevent the "WrappedListComponent" component from unnecessary re-rendering by wrapping the "WrappedListComponent" in the "memo" and pass it to "List" to export the component.

**Ans 2:** Yes, I found some errors in this code. For example, we need to use PropTypes.arrayOf instead of using PropTypes.array  and also change PropTypes.shapeOf to PropTypes.shape in this code.

**We can fix the error no-1 by making some changes as I mentioned above.**

WrappedListComponent.propTypes = {

  items: PropTypes.arrayOf(PropTypes.shape  ({

    text: PropTypes.string.isRequired,

  })),

};

Text

Description automatically generated

**Ans-2 / Error-2**

Map function is unable to read the “items” property because “items” is not an array datatype. It returns a null value as result. That’s the reason the map can not traverse “items” values.

**To fix this error, we need to convert the “items” type from null to an array.**

**import React, { useState, useEffect, memo } from "react";**

**import PropTypes from "prop-types";**

***// Single List Item***

**const WrappedSingleListItem = ({ index, isSelected, onClickHandler, text }) => {**

**return (**

**<li**

***// !- Added "cursor:pointer" in inline style***

**style={{**

**cursor: "pointer",**

**backgroundColor: isSelected ? "green" : "red"**

**}}**

**onClick={() => onClickHandler(index)}**

***// 2- Fixed the above line by adding callback function to onClickHandler(index)***

**>**

**{text}**

**</li>**

**);**

**};**

**WrappedSingleListItem.propTypes = {**

**index: PropTypes.number,**

**isSelected: PropTypes.bool,**

**onClickHandler: PropTypes.func.isRequired,**

**text: PropTypes.string.isRequired**

**};**

**const SingleListItem = memo(WrappedSingleListItem);**

***// List Component***

**const WrappedListComponent = ({ items }) => {**

**const [selectedIndex, setSelectedIndex] = useState();**

***// 3- Set the coorect position of selectedIndex and selectedIndex variable***

***// 4- selectedIndex is called as current value.***

***// 5- setSelectedIndex is function which is used to update the initial value***

***// of selectedIndex variable.***

**useEffect(() => {**

**setSelectedIndex(null);**

**}, [items]);**

**const handleClick = (index) => {**

**setSelectedIndex(index);**

**};**

**return (**

**<>**

**{items.map((item, index) => (**

***// 6- Set the key={index} to ul tag***

**<ul style={{ textAlign: "left" }} key={index}>**

**<SingleListItem**

**onClickHandler={() => handleClick(index)}**

**text={item}  *// 7- Fixed this line by changing {item.text} to {item}***

**index={index}**

**isSelected={selectedIndex}**

**/>**

**</ul>**

**))}**

**</>**

**);**

**};**

**WrappedListComponent.propTypes = {**

**items: PropTypes.arrayOf(**

**PropTypes.shape({**

**text: PropTypes.string.isRequired**

**})**

**)**

**};**

**WrappedListComponent.defaultProps = {**

**items: ["John", "Kevin"]   *// 8- Make the change from null to array string type***

**};**

**const List = memo(WrappedListComponent);**

**export default List;**