In spite of memorizing the NameComponent still it is re-rendering when any state changes in ParentComponent

```
function AgeComponent(props) {
                                                                                                                                                           console.log("AgeComponent renders");
function ParentComponent () {
                                                                                                                                                           return <div>
  console.log("Parent renders...")
let [age, setAge] = React.useState(18);
let [name, setName] = React.useState("Roger");
                                                                                                                                                                 Age: {props.age}
                                                                                                                                                             </div>
    console.log("Task executed!!!1")
                                                                                                                                                        function NameComponent(props) {
  console.log("NameComponent renders");
      return <div>
                                                                                                                                                              Name: {props.name} <br />
                                                                                                                                                    > let MemoName = React.memo(NameComponent);
  let MemoAge = React.memo(AgeComponent);
                  ReactDOM.render(<ParentComponent />, document.getElementById("root"));
                                                                                                                                                   console.log("AgeComponent renders");
function ParentComponent () { ✓
                                                                                                                                                   return <div>
 unction ParentComponent () { University of the Console.log("Parent renders...") let [age, setAge] = React.useState(18); let [name, setMame] = React.useState("Roger"); function doTask() { console.log("Task executed!!!!")
                                                                                                                                                         Age: {props.age}
                                                                                                                                                      </div>
   console.log("Namecoon,
return «div»

Name: (props.name) - cbr />
- obutton onclick=(props.someRef)>click=/buttons-
- </div>
                  ReactDOM.render(<ParentComponent />, document.getElementById("root"));
```

```
Solution: useCallback() hook to memorize function definition
function ParentComponent () {
console.log("Parent renders...")
let [age, setAge] = React.useState(18);
let [name, setName] = React.useState("Roger");
const doTask = React.useCallback(() => function() {
 console.log("Task executed!!!1")
}, []);
 return <div>
   <MemoName name={name} someRef={doTask}/> <br />
   <MemoAge age={age} /> <br />
  <button type="button" onClick={() => setAge(age + 1)}>Change Age </button>
  <button type="button" onClick={() => setName(name + "**")}>Change Name
</button>
  </div>
}
```







