useReducer Hook:

useReducer

useReducer is a React Hook that lets you add a reducer to your component.

```
const [state, dispatch] = @seReducer(reducer, initialArg, init?)
```

- 1. Take state and dispatch method, use useReducer hook with reducer function and initialState.
 - const [state, dispatch] = useReducer(reducer,initialState);
- 2. Have initial state defined:

```
import React from "react";
import { useReducer } from "react";

const initialState = {
  hideTextFlag: false,
  toggleTextFlag: false,
};
```

3. Have const types defined:

```
const SHOW_TEXT = "SHOW_TEXT";
const HIDE_TEXT = "HIDE_TEXT";
const TOGGLE_TEXT_STYLE = "TOGGLE_TEXT_STYLE";
```

4. Reducer function:

```
return {
          ...state,
          toggleTextFlag: !state.toggleTextFlag,
        };
    default:
    return {
          ...state,
        };
}
```

5. Whatever functionality we will be using, say input change or button click event, use dispatch method to dispatch the expected action.

```
export default function UseReducerHookExample() {
 const [state, dispatch] = useReducer(reducer, initialState);
 console.log(state);
 return (
     <h1>useReducerHook Learning</h1>
      {!state.hideTextFlag && (
         style={ {
           backgroundColor: state.toggleTextFlag === true ? "black" :
"white",
           color: state.toggleTextFlag === true ? "white" : "black",
         Lorem ipsum dolor sit amet consectetur adipisicing elit. Odit
alias
         dolorum laboriosam architecto itaque labore voluptatum fugit ea
         officia porro totam iusto quasi quo, excepturi eligendi facere
         doloremque sequi ipsum!
       <button onClick={() => dispatch({ type: SHOW TEXT })}>Show
Text</button>
      <button onClick={() => dispatch({ type: HIDE TEXT })}>Hide
Text</button>
      <button onClick={() => dispatch({ type: TOGGLE TEXT STYLE })}>
```

```
Toggle Text Style
</button>
</div>
);
}
```

Example:

```
import React from "react";
import { useReducer } from "react";
const initialState = {
 hideTextFlag: false,
 toggleTextFlag: false,
} ;
const TOGGLE TEXT STYLE = "TOGGLE TEXT STYLE";
const reducer = (state, action) => {
 switch (action.type) {
   case SHOW TEXT:
     return {
       ...state,
       hideTextFlag: false,
      };
    case HIDE TEXT:
     return {
       ...state,
       hideTextFlag: true,
    case TOGGLE TEXT STYLE:
     return {
        toggleTextFlag: !state.toggleTextFlag,
      };
    default:
```

```
return {
      };
export default function UseReducerHookExample() {
 const [state, dispatch] = useReducer(reducer, initialState);
 console.log(state);
 return (
     <h1>useReducerHook Learning</h1>
      {!state.hideTextFlag && (
         style={{
           backgroundColor: state.toggleTextFlag === true ? "black" :
"white",
           color: state.toggleTextFlag === true ? "white" : "black",
         Lorem ipsum dolor sit amet consectetur adipisicing elit. Odit
alias
         dolorum laboriosam architecto itaque labore voluptatum fugit ea
         officia porro totam iusto quasi quo, excepturi eligendi facere
         doloremque sequi ipsum!
       <button onClick={() => dispatch({ type: SHOW TEXT })}>Show
Text</button>
      <button onClick={() => dispatch({ type: HIDE TEXT })}>Hide
      <button onClick={() => dispatch({ type: TOGGLE TEXT STYLE })}>
       Toggle Text Style
     </button>
   </div>
 );
```