```
export default function cartReducer(state, action) {
   switch (action.type) {
        // product has {id, title, price, image, description}
        // dispatch({type:'ADD_TO_CART', payload: product})
        case 'ADD_TO_CART':
        let { id, title, price, image } = action.payload;
                                                                                                export const CartContext = createContext();
                                                                                                  const initialState = {
                                                                                                       cartItems: [],
                                                                                                       total: 0,
                                                                                                       quantity: 0
              let lineItem = {
                   id,
                   title,
                                                                                                  export default function CartProvider(props) {
                   price,
                                                                                                       let [state, dispatch] = useReducer(cartReducer, initialState);
                   image,
qty: 1,
                   amount: price // price * qty + GST - discount
                                                                                                       function \ add To Cart(product) \ \{ \cdots
              let total = state.total + lineItem.amount;
              // return new state
              return {
// clone state.cartItems and push lineItem
                                                                                                       function increment(id) {--
                   cartItems: [...state.cartItems, lineItem],
                   total,
                                                                                                       function clearCart() {--
                   quantity: state.quantity + 1
          case 'INCREMENT':
                                                                                                       return (
              return state;
                                                                                                            <CartContext.Provider value={{cart: state.cartItems,</pre>
          case 'DECREMENT':
                                                                                                            total: state.total,
              return state;
                                                                                                            quantity: state.quantity,
          case 'CLEAR_CART':
                                                                                                            addToCart,
              return {
                                                                                                            increment,
                   cartItems: [],
                                                                                                            clearCart
                   total: 0,
                                                                    cartItems: [],
                                                                                                            }}>
                   quantity: 0
                                                                   total: 0.
                                                                                                                {props.children}
                                                                   quantity: 0
                                                                                                            </CartContext.Provider>
          default: return state;
                                                                           HE P-P
```

