# Redux 2.2\_CW Exercises

image

### ex01: create actions

### challenge

In a file called actions.js, define the actions for adding income and expenses with amount.

#### solution

```
export const addIncome = (amount) => {
  return {
    type: 'ADD_INCOME',
    payload: amount,
  }
}

export const addExpense = (amount) => {
  return {
    type: 'ADD_EXPENSE',
    payload: amount,
  }
}
```

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## ex02: create reducers

### challenge

In a file called reducers.js, create reducers to manage income and expenses.

```
income: state.income + action.payload,
}
case 'ADD_EXPENSE':
    return {
        ...state,
        expenses: state.expenses + action.payload,
     }
    default:
        return state
}
export default financeReducer
```

#### ex03: create a redux store

### challenge

In a file called store.js, create the Redux store and connect it to the reducer.

#### solution

```
import { createStore } from 'redux'
import financeReducer from './reducers'

const store = createStore(financeReducer)

export default store
```

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## ex04: create a IncomeExpenseForm component

### challenge

Create a React component for your app. You can create an IncomeExpenseForm.js component to input income and expenses.

## ex05: create a FinanceSummary component

### challenge

You can create a FinanceSummary.js component to display the current financial status.

#### solution

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## ex06: connect components to redux

### challenge

In your components that need access to the Redux store, use the useSelector and useDispatch hooks to connect them. For example, in IncomeExpenseForm.js

```
// IncomeExpenseForm.js
import React, { useState } from 'react'
```

```
import { useDispatch } from 'react-redux'
import { addIncome, addExpense } from './actions'
function IncomeExpenseForm() {
  const dispatch = useDispatch()
  const [amount, setAmount] = useState(∅)
 const handleAddIncome = () => {
   dispatch(addIncome(parseFloat(amount)))
    setAmount(0)
 }
 const handleAddExpense = () => {
   dispatch(addExpense(parseFloat(amount)))
   setAmount(∅)
 }
 return (
    <div>
     <input</pre>
       type='number'
       value={amount}
       onChange={(e) => setAmount(e.target.value)}
     <button onClick={handleAddIncome}>Add Income</button>
     <button onClick={handleAddExpense}>Add Expense
    </div>
  )
}
export default IncomeExpenseForm
```

## ex07: display finance summary

## challenge

In your FinanceSummary.js component, use the useSelector hook to display the current income and expenses.

## ex08: connect app component

### challenge

In your main App.js component, wrap your components with the Provider and render them.

#### solution

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## entire solution #

https://codesandbox.io/s/redux-without-toolkit-with-react-rx2-forked-xdckzn