20.working with multiple states(combining multiple states into one approach)

In pervious lecture we followed the separate state maintenance approach

```
const ExpenseForm=()=>{
    const[enteredTitle, setEnteredTitle]=useState('');
    const[enteredAmount, setEnteredAmount]=useState('');
    const[enteredDate, setEnteredDate]=useState('');

const titleChangeHandler=(event)=>{
    setEnteredTitle(event.target.value);
    const amountChangeHandler=(event)=>{
    const amountChangeHandler=(event)=>{
    const dateChangeHandler=(event)=>{
    setEnteredDate(event.target.value);
    }

const dateChangeHandler=(event)=>{
    const d
```

- Now we are going to combine these three into one state and learn how to maintain it
  - We can create a object containing title, amount and date
  - This object should be a state object

- Now we want to handle this whenever each input field changes
- First let us handle the title field

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This will called titleChangeHandler

- Now we have to change only the title inside the titlechangehandler
- But at the same time we should not lose the other field's data
- So we are using the spread operator to copy the enteredInputs object and then
  we are overriding the enteredTitle by the new value
- Similarly for amount and date

- BUT THIS IS NOT THE BEST PRACTICE
  - o RECALL:

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WHEN A STATE'S SET METHOD(HERE SETENTEREDINPUTS)
 IS CALLED IT ACTUALLY DON'T UPDATE THE VALUE RIGHT
 AWAY IT JUST SCHEDULES THE UPDTE AND WHEN THE

- COMPONENT IS RE-EVALUATED AT THAT TIME ONLY IT GETS THE UPDATED VALUE
- SO WHEN WE ARE HAVING MANY STATE UPDATES AT A SINGLE TIME, SOMETIME USING THAT SPREAD OPERATOR(HERE ...enteredInputs) MAY GIVE AN OUTDATED VALUE
- So the best practice is
  - We know that the set function of state accepts an value or even a function
  - Here we should use a function inside the setEnteredInput function

- HERE WE ARE DEFINING A FUNCTION INSIDE THE SETENTEREINPUTS FUNCTION
- WHEN FUNCTION IS DEFINED INSIDE THE SET FUNCTION, IT PASSES THE PREVIOUS STATE TO THE INNERFUNCTION, SO THAT WE COULD ACCES THE PREVIOUS STATE
- THE INNER FUNCTION COPIES THE PREVIOUS STATE OBJECT USING SPREAD OPERATOR WHICH WILL NOT LEAD TO ANY INCONSITENCIES UNLIKE COPYING THE OBJECT DIRECTLY
- IMPORTANTLY AFTER DOING THIS THEN THE INNER FUNCTION MUST RETURN THE UPDATED OBJECT TO THE SET FUNCTION

## NOTE:

I am going to switch back to separate maintenance approach for this project but both of these approaches are fine

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