

```
what is wrong with this code? const htmlBody =
document.body
const submitButtonClick =
document.querySelector('button')
const colorInput =
document.querySelector('input').value

submitButtonClick.addEventListener('click', btnClick(colorInput))

function btnClick (colorInput) {
  if (colorInput = 'red' || colorInput == 'green' ||
colorInput == 'blue' || colorInput == 'white' ||
colorInput == 'black'){
    htmlBody.style.backgroundColor =
`${colorInput}`
  }else{
    alert ("You can only enter one of the following:
'red', 'green', 'blue', 'black', or 'white'. ")
  }
}
```



There are a few issues with your JavaScript code:

Issues:

1. Incorrect `addEventListener` Syntax:

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submitButtonClick.addEventListener('click', btnClick(colorInput))
```

- `btnClick(colorInput)` is immediately invoked when the script runs instead of being assigned as an event listener.
- Fix: Pass a function reference instead of calling it immediately. You can use an arrow function to pass the latest `colorInput` value.

2. Incorrect Assignment in `if` Condition:

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if (colorInput = 'red' || colorInput == 'green' || colorInput ==
'blue' || colorInput == 'white' || colorInput == 'black')
```

- `=` is an assignment operator, not a comparison operator. You should use `===` for strict comparison.
- The condition is also incorrect because `colorInput = 'red'` always evaluates as `true`, making the whole condition always `true`.
- Fix: Use `===` and wrap the condition properly with parentheses.

3. Value of `colorInput` is Captured Too Early:

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```
const colorInput = document.querySelector('input').value
```

- This captures the input value **only once when the script loads**, meaning it won't update when the user types a new value.
- Fix: Move `colorInput` inside the event listener function to get the latest value.

Fixed Code:

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```
const htmlBody = document.body; const submitButtonClick =  
document.querySelector('button');  
submitButtonClick.addEventListener('click', () => { const colorInput =  
document.querySelector('input').value.trim().toLowerCase();  
btnClick(colorInput); }); function btnClick(colorInput) { const  
validColors = ['red', 'green', 'blue', 'white', 'black']; if  
(validColors.includes(colorInput)) { htmlBody.style.backgroundColor =  
colorInput; } else { alert("You can only enter one of the following:  
'red', 'green', 'blue', 'black', or 'white'."); } }
```

Improvements:

- ✓ Fixes the `addEventListener` issue by using an arrow function to pass the latest `colorInput`.
- ✓ Ensures proper comparison by using `===` and `.includes()`.
- ✓ Retrieves the input value on each button click instead of only once at page load.
- ✓ Handles case sensitivity (`.toLowerCase()`) and removes extra spaces (`.trim()`).

This should now work correctly! 🚀



there is still an issue with this code. The background color entered by the user only appears for a fraction of a second, after which it reverts back to white



You're right! The issue is likely caused by the default behavior of the button inside a `<form>`.

Issue:

- If the button is inside a `<form>`, clicking it **submits the form** by default, causing the page to reload immediately.
- This makes the background color change briefly before resetting when the page refreshes.

Fix:

Prevent the default form submission using `event.preventDefault()`.

Updated Code:

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```
const htmlBody = document.body; const submitButtonClick =
document.querySelector('button');
submitButtonClick.addEventListener('click', (event) => {
event.preventDefault(); // Prevent form from refreshing the page const
colorInput = document.querySelector('input').value.trim().toLowerCase();
btnClick(colorInput); }); function btnClick(colorInput) { const
validColors = ['red', 'green', 'blue', 'white', 'black']; if
(validColors.includes(colorInput)) { htmlBody.style.backgroundColor =
colorInput; } else { alert("You can only enter one of the following:
'red', 'green', 'blue', 'black', or 'white'."); } }
```

Alternative Fix:

If the button is inside a `<form>`, another solution is to change:

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```
<button type="button">Submit</button>
```

instead of:

html



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```
<button type="submit">Submit</button>
```

This ensures that clicking the button doesn't trigger form submission.

Why Does This Work?

- `event.preventDefault();` stops the form from submitting, preventing the page reload.
- `.trim().toLowerCase();` ensures the input is clean and case-insensitive.
- Background color now correctly stays after clicking the button.

This should now work perfectly! 🚀 Let me know if you need more help. 😊



Indeed, it works perfectly now! Thanks a lot!



You're very welcome! 😊 I'm glad it's working perfectly now. Happy coding, and feel free to ask if you ever need more help! 🚀 🎨

