

1. Write a function that flattens an array. The array can be nested to any level.  
Input: [1, 2, 3, [4], 5]  
Output: [1, 2, 3, 4, 5]. The nesting can be till n level so write your logic accordingly.
2. Create a react app that would have three routes, registerUsers, loginUser and viewUsers.  
On register user, we should be able to take in the password and username and on viewuser I should be able to view the list of users.  
While registering, store the username and password on the UI itself and then the user should have the option to login. Only the user that has been registered should be allowed to login.  
The view user route should be protected and only the user that has been registered should be allowed to login.
3. Create a simple calculator simple to google calculator. For now, just have the functionality for DMAS operations with 0-9 allowed to be clicked. No need to allow any keyboard input. Just having the functionality to click the button should be good enough.

- Implement functionality for these buttons only

- 0, 1, 2, 3, 4, 5, 6, 7, 8, 9
- ., +, =, x (multiply), CE

Result should be displayed on pressing = button.

- Keyboard input is not required to be supported