- 1. Create new React app in reactjs_sandbox
- 2. Clean your app
- 3. Update App.js to have a class component
 - Add heading
 - A placeholder for score
 - Buttons for start and end game
- 4. Make overall CSS changes
 - · Add gradient background
 - Change font (use playful font)
 - Style also buttons
- 5. Create a new separated function component: Circle.js and connect it with App.js
 - · Make circles using Circle.css
 - Show min 4 circles on application (use map())
- 6. Make circles clickable and update score by state
 - State -> score: 0
 - clickHandler -> setState this.state.score +1
 - connect clickHandler with circles -> {props.clicks} and {this.clickHandler}
 - pass circle number to clickHandler -> use data passing to event handler (binding)
 - show updated score in score placeholder -> see step 3.
- 7. Finding random number for random circle highlight
 - You need a random number from 1-4 (or how many circles you have) -> https://www.w3schools.com/js/js_random.asp
 - Add state -> current: 0
 - Use Do While loop for finding a number which is 1-4 but not same as it was previously
 - Use setState for that number generated randomly -> setState current : nextActive
- 8. Add timer for random numbers (use for example setTimeOut method)
 - Define speed and timer
 - add start handler
 - add end handler -> use clearTimeOut
- 9. Colours changes (use inline styling and conditional rendering)
 - Add different colours for all circles -> check is circle default or active (the random number we created) and use active colour or inline style background colour
 - Add highlight colour for active circle -> add class in CSS for active state (for example default is
 ".circle" but in active phase it is ".circle .active")
- 10. Create GameOver.js function component and connect it with App.js
 - Create overlay
 - Create a popup box
 - Add Heading
 - Add Score
 - Add close button
 - Style GameOver view
- 11. By using true/false state, hide GameOver component until endHandler is triggered
 - State -> showGameOver: false

- Add trigger -> endHandler setState showGameOver:true
- Wrap component in JavaScript code which checks is state true or false

12. Add right circle click check

- If the randomly generated number and circle ID does not match, then endHandler will be triggered
- 13. Add **rounds to end the game after five rounds** (if the player does not click five rounds then the game will end)
 - State -> rounds: 0
 - setState this.state.rounds + 1
 - Add round check -> if more than five then endHandler will be triggered
 - Add in clickHandler setState which will clear rounds if the user clicks circles.

14. Disable Start button during the game

- Use disabled attribute on button element which is checking is the state true or false
- 15. Disable circle clicks before game starts
 - · Use inline styling
- 16. Add styling of your choice. Here is an example of one possible design:



- 17. Add sounds to every circle click and an image to for active circle.
- 18. Add screenshot from your application and add it to readme file.

Make GitHub commit

This game is a great way to use your knowledge about function and class components, how to use props and states, and how to style your application.

Well done!