**Exercise 1:**

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| **Function components** | **Class components** |
| It is Javascript function which accepts props as an argument and returns a React element | Requires to extend from React. Component and create a render function which returns a React element |
| Stateless component | Stateful components |
| Cannot use react lifecycle methods | Can use react lifecycle methods |
| Constructor are not used | Constructor are used as it needs to store data |

Exercise 2:

The state is an instance of React Component Class can be defined as an object of a set of **observable** properties that control the behavior of the component. In other words, the State of a component is an object that holds some information that may change over the lifetime of the component