what are the difference between variables and finctions give me in simple way

container to store a value variables i.e. =>x=1

functions are reuseable if we write code once we canreuse it no need of writing again and again

hosting :variables var() and functions move at the top of the scope during the execution

binding means to attach this keyword with function i.e bind() call()

closure : means the function remains in the environment where it is created it will assess the variables from outside if it finished executing

**React Virtual DOM and Tree Reconciliation:**

**Virtual dom is a light wait copy of actual dom react use it of better performance manipulatin with real dom**

**Tree reconciliation is a process to update the dom. It compares with previous dom a applies only necessary changes to real dom**

**Advantages of using hooks and custom hooks in React:**

**hooke allow to use states without class and it simplify the code to reuse**

**custom hooks :let us to extract component logic into reuseable functions and cleans the code**

**Differences between functional and class components in React:**

**Functional components it is light weight,uss hooke and give beterpreformance**

**class components :use this.state method and lifecycle method componentdidmount (boilarpaltes)**

**Managing state in a React application:**

**State can manage by use state it is functional component and this.state is managed by it is**