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1) Create a database named with 'mydb', Create a collection named 'employees', Insert 15 documents in it.

```
Code:
```

use("mydb");

## **Screenshot:**

```
> use mydb
switched to db mydb
>
```

db.createCollection("employees");

```
> db.createCollection("employees");
{ "ok" : 1 }
>
```

```
db.employees.insert([

{
    empno:2001,
    name:[
      {
        firstname:"Chintan",
        lastname:"Bhimani"
      }
    ],
    emailID:"bhimanicaa@gmail.com",
    contact:1234567890,
    designtion:"Web Devloper",
```



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```
birthday:new Date("2003-03-31"),
  joiningdate:new Date("2020-01-01"),
  salary:20000,
  department:[
    {
      name:"IT",
      discrition:"Information Technology"
    }
  ],
  address:[{
    city:"Ahmedabad",
    state:"Gujarat",
    landmark:"Vesu",
    pincode:395001
  }]
},
  empno:2002,
  name:[{
    firstname:"Rahul",
    lastname:"Makvana"
  }],
  emailID: "rahul111@gmail.com",
```



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```
contact:6754534567,
  designtion: "Police Officer",
  birthday:new Date("1988-02-11"),
  joiningdate:new Date("2000-11-27"),
  salary:54000,
  department:[{
    name: "Police",
    discrition: "Police Department"
  }],
  address:[{
    city:"Surat",
    state: "Gujarat",
    landmark: "Adajan",
    pincode:395011
  }]
},
  empno:2003,
  name:{
    firstname:"Nikunj",
    lastname: "Ghori"
  },
  emailID: "nikunj32@gmail.com",
```



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```
contact:9765694596,
  designtion: "Assistant Professor",
  birthday:new Date("1995-11-11"),
  joiningdate:new Date("2015-06-01"),
  salary:15000,
  department:{
    name: "School",
    discrition: "School Department"
  },
  address:{
    city:"Vadoadara",
    state: "Gujarat",
    landmark: "Adajan",
    pincode:399101
  }
},
{
  empno:2004,
  name:[{
    firstname:"Minal",
    lastname:"Ramani"
  }],
  emailID: "minal02@gmail.com",
```



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```
contact:5676567545,
  designtion: "Software Devloper",
  birthday:new Date("1999-09-04"),
  joiningdate:new Date("2019-01-01"),
  salary:56999,
  department:[{
    name:"IT",
    discrition:"IT Department"
  }],
  address:[{
    city:"Mumbai",
    state: "Maharashtra",
    landmark: "Bandra",
    pincode:4001069
  }]
},
  empno:2005,
  name:[{
    firstname:"Dhruvi",
    lastname: "Patel"
  }],
  emailID:"dhruvi@gmail.com",
```



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```
contact:234565437,
  designtion:"Manager",
  birthday:new Date("1976-05-06"),
  joiningdate:new Date("2003-10-01"),
  salary:91000,
  department:[{
    name:"AMT",
    discrition: "Social Service"
  }],
  address:[{
    city:"Junagadh",
    landmark: "Gir",
    pincode:564345
  }]
},
  empno:2006,
  name:[{
    firstname:"Kirti",
    lastname:"Mital"
  }],
  emailID: "mitalisha000@gmail.com",
  contact:098786745,
```



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```
designtion:"Tester",
  birthday:new Date("1988-02-11"),
  joiningdate:new Date("2000-11-27"),
  salary:24000,
  department:[{
    name: "Find Technology",
    discrition: "Checking Software Department"
  }],
  address:[{
    city:"Dilhi",
    state: "Uttar Pradesh",
    landmark:"West Delhi",
    pincode:888888
  }]
},
  empno:2007,
  name:[{
    firstname: "Chirag",
    lastname:"Jasani"
  }],
  emailID: "chirag01@gmail.com",
  contact:0005605656,
```



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```
designtion:"Owner",
  birthday:new Date("1992-12-17"),
  joiningdate:new Date("2017-12-01"),
  salary:null,
  department:[{
    name:"The Food Club",
    discrition:"Hotel"
  }],
  address:[{
    city:"Mumbai",
    state: "Maharashtra",
    landmark:"Juhu",
    pincode:400376
  }]
},
  empno:2008,
  name:[{
    firstname: "Akshay",
    lastname:"Kaneriya"
  }],
  emailID:"ak@gmail.com",
  contact:978656789,
```



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```
designtion: "Software Devloper",
  birthday:new Date("2001-11-26"),
  joiningdate:new Date("2020-03-01"),
  salary:70000,
  department:[{
    name:"IT",
    discrition:"IT Department"
  }],
  address:[{
    city:"Surat",
    state: "Gujarat",
    landmark:"Vesu",
    pincode:395001
  }]
},
  empno:2009,
  name:[{
    firstname: "Dhruvik",
    lastname:"Vekariya"
  }],
  emailID: "dhukiii@gmail.com",
  contact:123456543,
```



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```
designtion:"IAS Officer",
  birthday:new Date("2003-01-28"),
  joiningdate:new Date("2022-01-01"),
  salary:90000,
  department:[{
    name:"Police",
    discrition: "Police Department"
  }],
  address:[{
    city:"Mumbai",
    state: "Maharashtra",
    landmark: "Bandra",
    pincode:401069
  }]
},
  empno:2010,
  name:[{
    firstname: "Darshan",
    lastname: "Thummar"
  }],
  emailID: "darshan 007@gmail.com",
  contact:1230070076,
```



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```
designtion: "Seles Manager",
  birthday:new Date("2003-04-12"),
  joiningdate:new Date("2022-09-01"),
  salary:21000,
  department:[{
    name:"HTC Texttile",
    discrition: "Texttile Department"
  }],
  address:[{
    city: "Surat",
    state: "Gujarat",
    landmark:"Varachha",
    pincode:395006
  }]
}
```

#### **Screenshot:**

]);

```
BulkWriteResult({
    "writeErrors" : [ ],
    "writeConcernErrors" : [ ],
    "nInserted" : 10,
    "nUpserted" : 0,
    "nMatched" : 0,
    "nModified" : 0,
    "nRemoved" : 0,
    "upserted" : [ ]
})
>
```



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2) Write a MongoDB query to displays all documents from the employee's collection.

#### Code:

db.employees.find().pretty()

#### **Screenshot:**

```
disconsideration of the control of t
```

3) Write a MongoDB query to displays name, joining date and salary of all documents from the employee's collection.

#### Code:

db.employees.find({},{name:1,j\_date:1,salary:1,\_id:0}).pretty()

```
,name...,
"Chintan", "lastname"
"Lastname"
                                                                                                                                                                                    salary:1});
: "Bhimani" } ], "joiningdate" : ISODate("2020-01-01T00:00:002"), "salary" : 200
"Makvana" } ], "joiningdate" : ISODate("2000-11-27T00:00:002"), "salary" : 54000
Ghori" }, "joiningdate" : ISODate("2015-06-01T00:00:002"), "salary" : 15000 }
"Ramani" } ], "joiningdate" : ISODate("2019-01-01T00:00:002"), "salary" : 56999
"Patel" } ], "joiningdate" : ISODate("2003-10-01T00:00:002"), "salary" : 91000
"Mital" } ], "joiningdate" : ISODate("2000-11-27T00:00:002"), "salary" : 24000 }
"Jasani" } ], "joiningdate" : ISODate("2017-12-01T00:00:002"), "salary" : null
"Kaneriya" } ], "joiningdate" : ISODate("2020-03-01T00:00:002"), "salary" : 700
: "Vekariya" } ], "joiningdate" : ISODate("2022-01-01T00:00:002"), "salary" : 90
: "Thumman" } ] "ininingdate" : ISODate("2022-01-01T00:00:002"), "salary" : 91
                                                                                                                                           "lastname
                                                 'firstname'
                                                                                                                                                                            e" : "Bhiman:
: "Makvana"
                                             "firstname"
                                               irstname" : "Nikunj",
"firstname" : "Minal",
                                                                                                                                    "lastname" :
"lastname"
                                                                                                  "Minal", "lastname"
"Dhruvi", "lastname"
"Kirti", "lastname"
"Chirag", "lastname
                                              "firstname" :
"name"
                                              "firstname"
"name'
                                              "firstname"
                                                                                                                                        "lastname"
'name'
                                                                                                                                                                                           Kaneriya" } ], "joiningdate" : ISODate("2020-03-01700:00:002"),
"Vekariya" } ], "joiningdate" : ISODate("2022-01-01700:00:002"),
"Thummar" } ], "joiningdate" : ISODate("2022-09-01700:00:002"),
                                              "firstname"
                                                                                                                                       "lastname"
                                              "firstname"
                                                                                                                                           "lastname"
```



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4) Write a MongoDB query to displays first name, last name and email id of all documents from the employee's collection whose salary is more than 20000.

#### Code:

db.employees.find({},{\_id:0,name:1,joiningdate:1,salary:1});

#### **Screenshot:**

```
>> db.employees.find({"salary":{$gt:20000}},{"_id":0,"name":1,"emailID":1});
{    "name" : [ { "firstname" : "Rahul", "lastname" : "Makvana" } ], "emailID" : "rahul111@gmail.com" }
{    "name" : [ { "firstname" : "Minal", "lastname" : "Ramani" } ], "emailID" : "minal02@gmail.com" }
{    "name" : [ { "firstname" : "Dhruvi", "lastname" : "Patel" } ], "emailID" : "dhruvi@gmail.com" }
{    "name" : [ { "firstname" : "Kirti", "lastname" : "Mital" } ], "emailID" : "mitalisha000@gmail.com" }
{    "name" : [ { "firstname" : "Akshay", "lastname" : "Kaneriya" } ], "emailID" : "ak@gmail.com" }
{    "name" : [ { "firstname" : "Dhruvik", "lastname" : "Vekariya" } ], "emailID" : "dhukiii@gmail.com" }
{    "name" : [ { "firstname" : "Darshan", "lastname" : "Thummar" } ], "emailID" : "darshan007@gmail.com" }
```

5) Write a MongoDB query to displays first name, last name, email id and contact number of all documents from the employees collection whose salary is 20000 and working as an 'Web Developer'.

#### Code:

db.employees.find({"salary":{\$gt:20000}},{"\_id":0,"name":1,"emailID":1});



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6) Write a MongoDB query to displays all documents from the employee's collection whose first character of their first name is 'K'.

#### Code:

db.employees.find({"name.firstname":/^K/},{"\_id":0,"name.firstname":1}).pretty();

#### **Screenshot:**

```
> db.employees.find({"name.firstname":/^K/},{"_id":0,"name.firstname":1}).pretty();
{ "name" : [ { "firstname" : "Kirti" } ] }
>
```

7) Write a MongoDB query to displays all documents from the employee's collection in the ascending order of their birth year.

#### Code:

db.employees.find().sort({birthday:1});

```
db.employees.find().sort((birthday:1));

".id" objectId("635:1281b5bf791fc1c69b9"), "empno" : 2005, "name" : [ "firstname" : "Dhruvi", "lastname" : "Patel" ] ], "emailID" : "dhruviegmail.com", "contact" : 2 3455437, "designtion" : "Manager", 'birthday" : ISOOate("1976-08-08-08-08-08"), "joiningdate" : ISOOate("2003-10-0150-08-080), "salary" : 91000, "department" : [ "i" objectId("635:1281b5bf7921fc1c69b6"), "empno" : 2002, "name" : [ "firstname" : "Rahul, "lastname" : "Makvana" ] ], "emailID" : "rahullilggmail.com", "contact" : [ "i" objectId("635:1281b5bf7921fc1c69b6"), "empno" : 2002, "name" : [ "firstname" : "Rahul, "lastname" : "Makvana" ] ], "emailID" : "rahullilggmail.com", "contact" : [ [ "name" : "Police", "discrition" : "Police Department" ] ], "dddress" : [ [ "city" : "Surat", "state" : "Gujarat", "landmark" : "Adajam", "pincode" : 395911 ] ] [ "di" objectId("635:1281b5bf7921fc1c69b8"), "empno" : 2006, "name" : [ "firstname" : "first", "lastname" : "Mirat" ], "emailID" : "mitalishad000gmail.com", "contact" : 98786745, "designtion" : "Tester", "birthday" : ISOOate("1888-02-11100:00:0027), "joiningdate" : ISOOate("2000-11-27700:00:0027), "salary" : 24000, "department" : [ " name" : "first | "alatname" : "first | "lastname" : "Vitar Pradesh, "landmark" : "West Delhi", "pincode" : 888588 ] ] [ ".id" objectId("635:1281b5bf7921fc1c69bb"), "empno" : 2007, "name" : [ "firstname" : "Giriag, "lastname" : "Jasani" ], "emailID" : "chirag01@gmail.com", "contact" : IS19318, "designtion" : "Owner", "birthday" : ISOOate("1992-12-1700:00:0027), "joiningdate" : "Moharashtra", "landmark" : "West Delhi", "pincode" : 40075 } ] ] [ ".id" objectId("635:1281b5bf7921fc1c69bb"), "empno" : 2007, "name" : "Firstname" : "Mikunj", "lastname" : "Golare, "landmark" : "Whill "Juhn", "pincode" : 40075 } ] ] [ ".id" objectId("635:1281b5bf7921fc1c69bb"), "mpno" : 2003, "name" : "Firstname" : "Mikunj", "joiningdate" : ISOOate("2010-0-0027), "salary" : 150006, "department" : [ ".id" objectId("635:1281b5bf7921fc1c69bb"), "mpno" : 2003, "na
```



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8) Write a MongoDB query to displays top 5 documents from the employee's collection earning highest.

## Code:

db.employees.find().sort({"salary":-1}).limit(5);

## **Screenshot:**

```
> db.employees.find().sort({"salary":-1}).limit(5);
{ ".id" : ObjectId("63261281b5167921fc1659b"), "empno" : 2005, "name" : [ { "firstname" : "Dhruvi", "lastname" : "Patel" } ], "emailD" : "dhruvi@gmail.com", "contact" : 2
34565437, 'designtion' : "Manager", "birthday" : ISODate("1976-05-06700:0027), "joiningdate" : ISODate("2003-10-01700:00:0027), "salary" : 91000, "department" : [ { "nam
e" : "ANT", "discrition" : "Social Service" } ], "address" : [ { "city" : "Junagadh", "landmark" : "Gir", "pincode" : 564345 } ] }
{ ".id" : ObjectId("63261281b5bf7921fc1c69bd"), "empno" : 2009, "name" : [ { "firstname" : "Dhruvik", "lastname" : "Vekariya" } ], "emailID" : "dhukiii@gmail.com", "contact
" : 123456543, "designtion' : "IAS Officer", "birthday" : ISODate("2023-21-22700:00:0027"), "joiningdate" : ISODate("2022-01-01700:00:0027"), "salary" : 90000, "department" :
[ { "name" : "Police", "discrition" : "Police Department" } ], "address" : [ { "city" : "Mumbai", "state" : "Maharashtra", "landmark" : "Bandra", "pincode" : 401069 } ] }
{ ".id" : ObjectId("63361281b5bf7921fc1659bc"), "empno" : 2008, "name" : [ { "firstname" : "Akshay" : "lastname" : "Kaneniya" } ], "emailID" : "malailD" : "alary" : 70000, "department" :
[ { "name" : "IT", "discrition" : "IT Department" } ], "address" : [ { "city" : "Sunat", "state" : "Gujarat", "landmark" : "Vesu", "pincode" : 401069 } ] }
{ ".id" : ObjectId("63261281b5b7921fc1659b8"), "empno" : 2004, "name" : [ { "city" : "Sunat", "state" : "Gujarat", "landmark" : "Vesu", "pincode" : 395001 } ] }
{ ".id" : ObjectId("63261281b5bf7921fc1659b8"), "empno" : 2004, "name" : [ { "city" : "Sunat", "state" : "Mumbai", "state" : "Ranani" } ], "emailID" : "malail202gmail.com", "contact" : 5675567545, "designtion" : "Software Devloper", "birthday" : ISODate("1999-09-04700:002"), "joiningdate" : ISODate("2019-01-01700:00:002"), "salary" : 56999, "department" : [ { "name" : "IT", "discrition" : "IT Department" } ], "emailID" : "malail202gmail.com", "contact" : "Mumbai", "state" : "Malanashtra",
```

9) Write a MongoDB query to remove all the documents whose pincode is 395001.

#### Code:

db.employees.deleteMany({"address.pincode":395001});

```
> db.employees.deleteMany({"address.pincode":395001});
{ "acknowledged" : true, "deletedCount" : 2 }
>
```



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# 10) Write a MongoDB query to displays all documents from the employees collection born on or before 1990.

#### Code:

db.employees.find({"birthday":{\$lte:ISODate("1990-12-31")}},{"birthday":1});

#### **Screenshot:**

```
> db.employees.find({"birthday":{$lte:ISODate("1990-12-31")}},{"birthday":1});
{ "_id" : ObjectId("63261281b5bf7921fc1c69b6"), "birthday" : ISODate("1988-02-11T00:00:00Z") }
{ "_id" : ObjectId("63261281b5bf7921fc1c69b9"), "birthday" : ISODate("1976-05-06T00:00:00Z") }
{ "_id" : ObjectId("63261281b5bf7921fc1c69ba"), "birthday" : ISODate("1988-02-11T00:00:00Z") }
>
```

11) Install Nodejs, Create React one react application with "Myfirstapp" name and Run it

## Code:

```
npx create-react-app myfirstapp
cd myfirstapp
npm start
```

## App.js

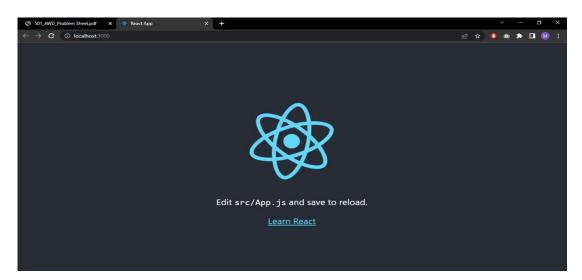


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```
Edit <code>src/App.js</code> and save to reload.
```

```
<a
className="App-link"
href="https://reactjs.org"
target="_blank"
rel="noopener noreferrer"

>
    MyFirstapp
</a>
</header>
</div>
);
}
export default App;
```





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### 12) Write a React program to create Header, Navbar using Bootstrap

#### Code:

## App.js

```
import 'bootstrap/dist/css/bootstrap.min.css';
import {Nav, Navbar, Container, NavDropdown} from 'react-bootstrap';
function App() {
 return (
  <Navbar bg="primary" expand="md">
  <Container>
   <Navbar.Brand href="#home">Navbar Brand</Navbar.Brand>
   <Navbar.Toggle aria-controls="basic-navbar-nav" />
   <Navbar.Collapse id="basic-navbar-nav">
    <Nav className="me-auto">
     <Nav.Link href="#home">Home</Nav.Link>
     <Nav.Link href="#link">Link</Nav.Link>
     <NavDropdown title="Dropdown" id="basic-nav-dropdown">
      <NavDropdown.Item href="#action/3.1">Dropdown Item 1</NavDropdown.Item>
      <NavDropdown.Item href="#action/3.2">Dropdown Item 2</NavDropdown.Item>
      <NavDropdown.Item href="#action/3.3">Dropdown Item 3</NavDropdown.Item>
      <NavDropdown.Divider />
      <NavDropdown.Item href="#action/3.4">Another Item</NavDropdown.Item>
     </NavDropdown>
    </Nav>
```



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```
</Navbar.Collapse>
</Container>
</Navbar>
);
}
export default App;
```

## **Screenshot:**



13) Write a react program to create Form with Name, address, Gender, Subjects (dropdown box), Hobbies (check box) submit the form and alert the inputted data.

#### Code:

## App.js

```
function BasicExample() {
  return (
  <Form>
     <Form.Group className="mb-3" controlId="formBasicName">
     <Form.Label>Name</Form.Label>
```



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```
<Form.Control type="name" placeholder="Enter Your Name" />
</Form.Group>
<Form.Group className="mb-3" controlld="formBasicAddress">
<Form.Label>Address</Form.Label>
<Form.Control type="address" placeholder="Enter Your Address" />
</Form.Group>
<Form.Group className="mb-3" controlId="formBasicGender">
<Form.Label>Gender</Form.Label>
<Form.Control type="gender" placeholder="Enter Your Gender" />
</Form.Group>
<Form.Group className="mb-3">
<Form.Label>Subject</Form.Label>
<Form.Select disabled>
 <option>Science</option>
</Form.Select>
</Form.Group>
<Form.Group className="mb-3">
<Form.Label>Hobbies</Form.Label>
<Form.Check type="checkbox" label="Cricket" />
<Form.Check type="checkbox" label="Football" />
</Form.Group>
<Button variant="primary" type="submit">
```



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Submit	
);	
}	
export default BasicExample;	
Screenshot:	
Name	
Enter Your Name	
Address	
Enter Your Address	
Gender	
Enter Your Gender	
Subject	
Science	
Hobbies  Cricket  Football	

14 ) Write a React program to count button click event using 'useState' hook.

#### Code:

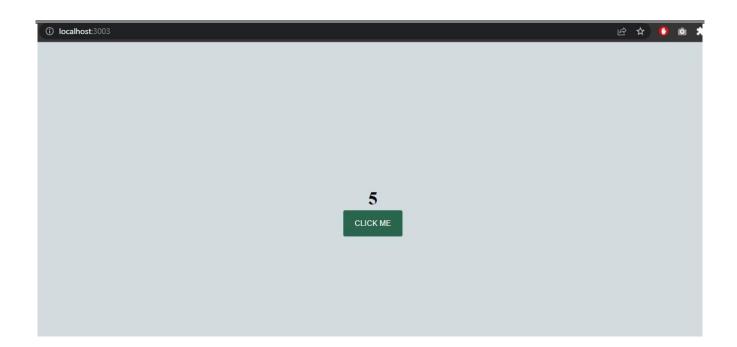
## Count.js

```
import React, { useState } from "react";
import ReactDOM from "react-dom";
import "../src/App.css";
function App() {
    // State to store count value
    const [count, setCount] = useState(0);
    // Function to increment count by 1
    const incrementCount = () => {
```



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```
// Update state with incremented value
    setCount(count + 1);
};
return (
    <div className="app">
        <button onClick={incrementCount}>Click Here</button>
        {count}
        </div>
    );
}
const rootElement = document.getElementById("root");
ReactDOM.render(<App />, rootElement);
```





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## 15) Write a React program to create Timer using 'useEffect' hook.

#### Code:

```
CountDownTimer.js
import React from 'react';
import './style';
const Timer = () => {
 return (
  <div className="container">
   <div className="time">
    <span className="minute">00</span>
    <span>:</span>
    <span className="second">00</span>
   </div>
   <div className="buttons">
    <button onClick={() => null} className="start">Start/button>
    <button onClick={() => null} className="reset">Reset</button>
   </div>
  </div>
 )
}
export default Timer;
App.js:-
import React, { useState, useEffect } from 'react';
```



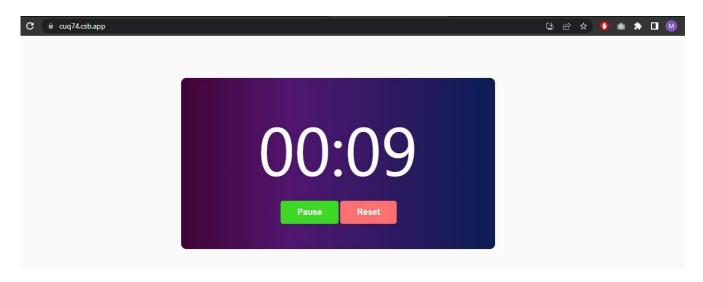
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```
const Timer = () => {
 function stopTimer() {
  setIsActive(false);
  setCounter(0);
  setSecond('00');
 setMinute('00')
 }
 return (
  <div className="container">
   <div className="time">
    <span className="minute">{minute}</span>
    <span>:</span>
    <span className="second">{second}</span>
   </div>
   <div className="buttons">
    <button onClick={() => setIsActive(!isActive)} className="start">
     {isActive ? "Pause": "Start"}
    </button>
    <button onClick={stopTimer} className="reset">Reset</button>
   </div>
 </div>
 )
```



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#### Screenshot:



## 16) Create Single page application (Website) using Angular js.

## Code:

Index.html:

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Single page web app using Angularjs</title>

<script src="//ajax.googleapis.com/ajax/libs/angularjs/1.3.3/angular.min.js"></script>

<script src="//cdnjs.cloudflare.com/ajax/libs/angular.js/1.3.3/angular-route.min.js"> </script>

<script src="script.js"></script>

</head>

<br/>
<br/



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```
<div ng-controller="cfgController">
 <div>
    <a href="#/">Home</a>
    <a href="#/about">About us</a>
   </nav>
</div>
 <br/>br/>
 <div ng-view>
 </div>
 </div>
</body>
</html>
Script.js
var app=angular.module('single-page-app',['ngRoute']);
app.config(function($routeProvider){
   $routeProvider
      .when('/',{
         templateUrl: 'home.html'
     })
      .when('/about',{
         templateUrl: 'about.html'
     });
```



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});
app.controller('cfgController',function(\$scope){
});