```
import FilterObject from "./components/Topics/FilterObject";
import React, { Component } from "react";
                                                     import FilterString from "./components/Topics/FilterString";
                                                     import Palindrome from "./components/Topics/Palindrome";
class Sum extends Component {
                                                     import Sum from "./components/Topics/Sum";
constructor() {
 super ();
                                                      class App extends Component {
                                                      render() {
 this.state = {
                                                       return (
  number1:0,
                                                        <div>
  number2: 0,
                                                         <TopicBrowser/>
  sum: null,
                                                         <EvenAndOdd />
                                                         <FilterObject />
                                                         <FilterString />
                                                         <Palindrome />
 input1(num) {
                                                         <Sum />
 this.setState({ number1: parseInt(num) });
                                                        </div>
 input2(number) {
 this.setState({ number2: parseInt(number) });
                                                     export default App;
 addNums(num1, num2) {
 this.setState({ sum: num1 + num2 });
 render() {
 return (
   <div className="puzzleBox sumPB">
    <h4>Sum</h4>
    <input
    className="inputLine"
    onChange={(e) => this.input1(e.target.value)}
    ></input>
    <input
    className="inputLine"
    onChange={(e) => this.input2(e.target.value)}
   ></input>
    <button
    className="confirmationButton"
    onClick={() => this.addNums(this.state.number1, this.state.number2)}
    >
    Add
    </button>
    <span className="resultsBox">
    Sum: {JSON.stringify(this.state.sum)}
                                                        import React from "react";
    </span>
   </div>
                                                        const TopicBrowser = () => {
                                                        return Hello World;
 );
                                                        export default TopicBrowser;
export default Sum;
```

import React, { Component } from "react":

import TopicBrowser from "./components/TopicBrowser/TopicBrowser";

```
import EvenAndOdd from "./components/Topics/EvenAndOdd";
                                      import React, { Component } from "react";
                                      class Palindrome extends Component {
                                       constructor() {
                                        super();
                                        this.state = {
                                         userInput: "",
                                         palindrome: "",
                                       inputStr(val) {
                                        this.setState({ userInput: val });
                                       isPalindrome(userInput) {
                                        let forwards = this.state.userInput;
                                        let backwards = this.state.userInput;
                                        backwards = backwards.split("").reverse().join("");
                                        if (forwards === backwards) {
                                         this.setState({ palindrome: "true" });
                                        } else {
                                         this.setState({ palindrome: "false" });
                                       render() {
                                        return (
                                         <div className="puzzleBox filterStringPB">
                                          <h4>Palindrome</h4>
                                          <input
                                           className="inputLine"
                                           onChange={(e) => this.inputStr(e.target.value)}
                                          ></input>
                                          <but
                                           className="confirmationButton"
                                           onClick={() => this.isPalindrome(this.state.userInput)}
                                           Palindrome
                                          </button>
                                          <span className="resultsBox">Palindrome: {this.state.palindrome}</span>
                                         </div>
                                        );
```

export default Palindrome;

```
import React, { Component } from "react";
class EvenAndOdd extends Component {
constructor () {
 super();
 this.state = {
  evenArray: [],
  oddArray: [],
  userInput: "",
saveInput(num) {
 this.setState({ userInput: num });
 EvenAndOddSeparator(userInput) {
 let arr = userInput.split(",");
 let evens = [];
 let odds = [];
 for (let i = 0; i < arr.length; i++) {
  if (arr[i] \% 2 === 0) {
   evens.push(parseInt(arr[i], 10));
  } else {
    odds.push(parseInt(arr[i], 10));
 this.setState({ evenArray: evens, oddArray: odds });
 render() {
 return (
   <div className="puzzleBox evenAndOddPB">
    <h4>Evens and Odds</h4>
    <input
     className="inputLine"
     onChange={(e) => this.saveInput(e.target.value)}
    />
    <button
     className="confirmationButton"
    onClick={() => this.EvenAndOddSeparator(this.state.userInput)}
     Click
    </button>
    <span className="resultsBox">
     Evens: {JSON.stringify(this.state.evenArray)}{" "}
    <span className="resultsBox">
     Odds: {JSON.stringify(this.state.oddArray)}{" "}
    </span>
   </div>
export default EvenAndOdd;
```

```
import React, { Component } from "react";
class FilterString extends Component {
 constructor() {
  super();
  this.state = {
   unFilteredString: [
    "Abby",
    "Bryce",
    "Jason",
    "Linda",
    "Louis",
    "Jessica",
    "Jaime",
     "Zack",
    "David",
    "Amy",
"Scout",
    "Jordan",
   userInput: ""
   filteredArray: [],
 };
inputVal(str) {
  this.setState({ userInput: str });
 filtered(prop) {
  let unFilteredString = this.state.unFilteredString;
  let userInput = this.state.userInput;
  let arr = \Pi;
  for (let \ i = 0; i < unFilteredString.length; i++) \ \{ \\ if (unFilteredString[i].includes(userInput)) \ \{ \\ \} 
    arr.push(unFilteredString[i]):
  this.setState({ filteredNames: arr });
 render() {
  return (
   <div className="puzzleBox filterStringPB">
    <h4>Filter String</h4>
     <span className="puzzleText">
     Names:
     {JSON.stringify(this.state.unFilteredString)}
     </span>
     <input
     className="inputLine"
     onChange={(e) => this.inputVal(e.target.value)}
    ></input>
     <button
     className="confirmationButton"
     onClick={() => this.filtered(this.state.userInput)}
     Filter{" "}
     </button>
    <span className="resultsBox filterStringRB">
     Filtered Names: {JSON.stringify(this.state.filteredNames)}{" "}
    </span>
   </div>
export default FilterString;
```

```
import React, { Component } from "react";
class FilterObject extends Component {
 constructor() {
  super();
  this.state = {
   unFilteredArray: [
     name: "Charolette Lee",
     favoriteFood: "pizza",
     favoriteColor: "pink",
     name: "Jason Kim",
     favoriteDrink: "lemonade",
     favoriteArtist: "Taylor Swift",
    { name: "David White", favoriteShow: "the office", height: "6'0" },
   filteredArray: [],
   userInput: "",
 saveInput(val) {
  this.setState({ userInput: val });
 filtered(prop) {
  let unFilteredArray = this.state.unFilteredArray;
  let arr = [];
  for (let i = 0; i < unFilteredArray.length; <math>i++) {
   if (unFilteredArray[i].hasOwnProperty(prop)) {
    arr.push(unFilteredArray[i]);
  this.setState({ filteredArray: arr });
 render() {
  return (
   <div className="puzzleBox filterObjectPB">
    <h4>Filter Object</h4>
    <span className="puzzleText">
     {JSON.stringify(this.state.unFilteredArray)}{" "}
    </span>
    <input
     className="inputLine"
     onChange={(e) => this.saveInput(e.target.value)}
    ></input>
    <but
     className="confirmationButton"
     onClick={() => this.filtered(this.state.userInput)}
     See Filtered Object
    </button>
    <span className="resultsBox filterObjectRB">
     Filtered: {JSON.stringify(this.state.filteredArray)}
    </span>
   </div>
  );
export default FilterObject;
```