### WEB DEVELOPMENT ASSIGNMENT REACT

Siddharth Sheokand 22BCE0662

Task 1.)

Create a to do list app for daily activities where text showing the description of the todo-list item.

```
import React, { useState } from 'react';
function TodoApp() { const [tasks,
setTasks] = useState([]);
 const [inputTask, setInputTask] = useState('');
  const handleChange = (event) => {
setInputTask(event.target.value);
 };
       const handleSubmit = (event)
       event.preventDefault();
=> {
if (inputTask.trim() !== '') {
setTasks([...tasks, inputTask]);
setInputTask('');
 };
 const handleDelete = (index) => {
setTasks(tasks.filter((_, i) => i !== index));
  };
 return (
    <div style={{ fontFamily: 'Arial, sans-serif', textAlign: 'center' }}>
      <h1 style={{ marginBottom: '20px' }}>To-Do List</h1>
      <form onSubmit={handleSubmit} style={{ marginBottom: '20px' }}>
                         type="text"
        <input</pre>
value={inputTask}
onChange={handleChange}
placeholder="Enter task description"
style={{
                 padding: '10px',
fontSize: '16px',
                              marginRight:
'10px',
```

```
}}
       />
                 <button
type="submit"
                     style={{
padding: '10px 20px',
fontSize: '16px',
backgroundColor: '#007bff',
color: '#fff',
                        border:
'none',
                  borderRadius:
'5px',
                 cursor: 'pointer',
         }}
         Add Task
       </button>
     </form>
     {tasks.map((task, index) => (
                       key={index}
style={{
                    marginBottom: '10px',
padding: '10px',
backgroundColor: '#f4f4f4',
borderRadius: '5px',
                               display:
'flex',
                   justifyContent: 'space-
between',
                     alignItems: 'center',
          }}
           <span>{task}</span>
                              onClick={() =>
          <button
handleDelete(index)}
                               style={{
padding: '5px 10px',
backgroundColor: '#dc3545',
color: '#fff',
                            border: 'none',
borderRadius: '5px',
                                 cursor:
'pointer',
            }}
            Delete
          </button>
         ))}
```

```
 </div>
 );
}
export default TodoApp;
```

### To-Do List



```
import React from 'react';
class TimeTableApp extends React.Component
 render() { return (
  <div style={appStyle}>
  <h1 style={headerStyle}>Class Time Table</h1>
  <thead>
   Time
    Monday
    Tuesday
    Wednesday
    Thursday
    Friday
   </thead>
   9:00 - 10:00
    Math
    English
    Science
    History
    Geography
   10:00 - 11:00
    Science
Math
    English
    Science
    History
   11:00 - 12:00
    History
    Science
Math
    English
    Science
   12:00 - 13:00
```

```
Lunch
      Lunch
      Lunch
      Lunch
      Lunch
     13:00 - 14:00
      Geography
      History
      Science
Math
      English
     14:00 - 15:00
      English
      Geography
      History
      Science
      Math
     </div>
 );
} const appStyle = {
fontFamily: 'Arial, sans-serif',
textAlign: 'center', marginTop:
'50px',
}; const headerStyle
= { fontSize:
'24px',
marginBottom: '20px',
};
const tableStyle = {
border: '1px solid red',
borderCollapse: 'collapse',
width: '80%', margin: '0
auto',
}; const
tableCellStyle = {
```

```
border: '1px solid blue',
padding: '8px',
}; const thStyle = {
border: '1px solid black',
    // backgroundColor: '#f2f2f2',
}; export default
TimeTableApp;
```

### Class Time Table

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:00	Math	English	Science	History	Geography
10:00 - 11:00	Science	Math	English	Science	History
11:00 - 12:00	History	Science	Math	English	Science
12:00 - 13:00	Lunch	Lunch	Lunch	Lunch	Lunch
13:00 - 14:00	Geography	History	Science	Math	English
14:00 - 15:00	English	Geography	History	Science	Math

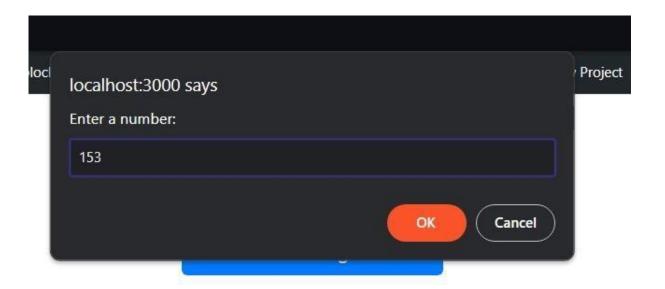
TASK-3.) Create an app to check whether a given number is Armstrong number or not. Note: Use Prompt input

```
import React, { useState } from 'react';
function ArmstrongApp() { const [inputNumber,
setInputNumber] = useState(''); const [isArmstrong,
setIsArmstrong] = useState(null);
   const checkArmstrong = () => {
const number = parseInt(inputNumber);
let sum = 0;
               let temp = number;
    while (temp > 0) {
const digit = temp % 10;
+= digit ** 3;
                temp =
Math.floor(temp / 10);
          setIsArmstrong(sum ===
number);
 };
  return (
    <div style={appStyle}>
      <h2>Armstrong Number Checker</h2>
      <div style={inputContainerStyle}>
        <label>Enter a number:</label>
                         type="number"
        <input
value={inputNumber}
                              onChange={(e) =>
setInputNumber(e.target.value)}
style={inputStyle}
        />
      <button onClick={checkArmstrong} style={buttonStyle}>
        Check
      </button>
      {isArmstrong !== null && (
        <div style={resultStyle}>
          {isArmstrong ? `${inputNumber} is an Armstrong number` :
 ${inputNumber} is not an Armstrong number`}
        </div>
      )}
    </div>
 );
```

```
const appStyle = { textAlign:
'center', fontFamily: 'Arial,
sans-serif', marginTop: '50px',
}; const
inputContainerStyle = {
marginBottom: '20px',
}; const inputStyle
= { padding:
'5px', marginLeft:
'10px',
}; const buttonStyle = {
padding: '10px 20px',
fontSize: '16px',
backgroundColor: '#007bff',
color: '#fff', border:
'none', borderRadius:
'5px', cursor: 'pointer',
marginLeft: '10px',
}; const
resultStyle = {
marginTop: '20px',
fontWeight: 'bold',
}; export default
ArmstrongApp;
```

# **Armstrong Number Checker**

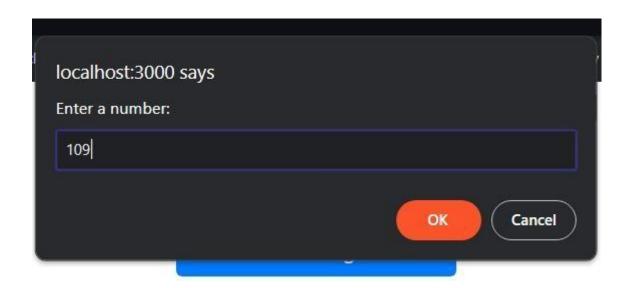
**Check Armstrong Number** 



### **Armstrong Number Checker**

Check Armstrong Number

The number is an Armstrong number



## **Armstrong Number Checker**

Check Armstrong Number

The number is not an Armstrong number

TASK4.) Create your app (any computation like bills, tax ...) which includes the following concepts • Functional Component • Class Component

```
import React, { useState } from 'react';
function BillCalculator() {    const [itemPrice,
setItemPrice] = useState(''); const [quantity,
setQuantity] = useState(''); const [total,
setTotal] = useState(0);
   const handleCalculate = () => {
                                    const totalPrice =
parseFloat(itemPrice) * parseInt(quantity);
setTotal(totalPrice.toFixed(2));
 };
 return (
    <div style={calculatorStyle}>
      <h2>Bill Calculator</h2>
      <div style={inputContainerStyle}>
        <label>Item Price:</label>
                        type="number"
value={itemPrice}
                            onChange=\{(e) =>
setItemPrice(e.target.value)}
style={inputStyle}
       />
      </div>
      <div style={inputContainerStyle}>
        <label>Quantity:</label>
type="number"
value={quantity}
          onChange={(e) => setQuantity(e.target.value)}
style={inputStyle}
        />
      </div>
      <button onClick={handleCalculate} style={buttonStyle}>
        Calculate Total
      </button>
      <div style={totalStyle}>Total: ${total}</div>
  );
} class BillApp extends
React.Component { render() {
return (
```

```
<div style={appStyle}>
       <BillCalculator />
     </div>
   );
} const appStyle = {
textAlign: 'center',
fontFamily: 'Arial, sans-serif',
}; const calculatorStyle
= { border: '2px solid
#333', borderRadius:
'5px', padding: '20px',
width: '300px', margin:
'0 auto',
}; const
inputContainerStyle = {
marginBottom: '10px',
}; const inputStyle
= { padding:
'5px', marginLeft:
'10px',
}; const buttonStyle = {
padding: '10px 20px',
fontSize: '16px',
backgroundColor: '#007bff',
color: '#fff', border:
'none', borderRadius:
'5px', cursor: 'pointer',
marginTop: '10px',
};
const totalStyle = {
marginTop: '20px',
fontWeight: 'bold',
}; export default
BillApp;
```

Quantity:	

Bil	l Calculator
Item Price:	450
Quantity:	10
	Calculate Total
т	otal: \$4500.00

TASK 5.) Create a app to display the cricket scoreboard of five player using Props concepts – (Functional and class components) Using State, Change the details of the runs and wickets for a cricketers listed below after an over / every 6 balls.

```
import React, { useState } from 'react';
 function Player(props)
   return (
    <div style={playerStyle}>
      <h2>{props.name}</h2>
      Runs: {props.runs}
      Wickets: {props.wickets}
    </div>
  );
  function Score() { const [players,
                           { name: 'Player
setPlayers] = useState([
1', runs: 0, wickets: 0 },
    { name: 'Player 2', runs: 0, wickets: 0 },
    { name: 'Player 3', runs: 0, wickets: 0 },
    { name: 'Player 4', runs: 0, wickets: 0 },
   { name: 'Player 5', runs: 0, wickets: 0 },
       const updateScore = () => {
updatedPlayers = players.map((player) => ({
                       runs: Math.floor(Math.random() * 7), // random runs
      ...player,
                   wickets: Math.floor(Math.random() * 2), // random
setPlayers(updatedPlayers);
  };
  return (
    <div style={appStyle}>
      <h1>Cricket Scoreboard</h1>
      <button onClick={updateScore} style={buttonStyle}>Next Over</button>
      <div style={playersContainerStyle}>
        {players.map((player, index) => (
          <Player key={index} name={player.name} runs={player.runs}</pre>
wickets={player.wickets} />
        ))}
      </div>
    </div>
  );
```

```
const appStyle = { textAlign:
'center', fontFamily: 'Arial,
sans-serif',
}; const playerStyle = {
border: '2px solid #333',
borderRadius: '5px',
padding: '10px', margin:
'10px', width: '200px',
 display: 'inline-block',
}; const buttonStyle = {
margin: '20px', padding:
'10px 20px', fontSize:
'16px', backgroundColor:
'#007bff', color: '#fff',
border: 'none',
borderRadius: '5px',
cursor: 'pointer',
}; const playersContainerStyle
= { display: 'flex',
justifyContent: 'center',
}; export default
Score;
```

### **Cricket Scoreboard**

Next Over

Player 1

Runs: 0 Wickets: 0 Player 2

Runs: 0 Wickets: 0 Player 3

Runs: 0 Wickets: 0 Player 4

Runs: 0 Wickets: 0 Player 5
Runs: 0

Wickets: 0

### **Cricket Scoreboard**

Next Over

Player 1

Runs: 6 Wickets: 0 Player 2

Runs: 0 Wickets: 0 Player 3

Runs: 2 Wickets: 1 Player 4

Runs: 5 Wickets: 1 Player 5

Runs: 0 Wickets: 0

TASK 6.) Creating a simple counter using React which increments or decrements count dynamically onscreen as the user clicks on the button. (Hint Use Hooks

```
import React, { useState } from 'react';
function Counter() {    const [count,
setCount] = useState(0);
  const increment = () =>
     setCount(count + 1);
      const decrement =
() => {
         setCount(count
- 1);
 };
 return (
    <div style={{ fontFamily: 'Arial, sans-serif', textAlign: 'center' }}>
      <h1>Counter</h1>
      Count: {count}
      <button onClick={increment} style={buttonStyle}>
        Increment
      </button>
     <button onClick={decrement} style={buttonStyle}>
        Decrement
      </button>
   </div>
  );
const buttonStyle = {
padding: '10px 20px',
fontSize: '16px',
margin: '10px',
 backgroundColor:
'#007bff', color: '#fff',
border: 'none',
borderRadius: '5px',
cursor: 'pointer',
}; export default
Counter;
```

### Counter

Count: 15

Increment

Decrement

## Counter

Count: 7

Increment

Decrement

### Counter

Count: 0

Increment

Decrement