**TASK 7 – STOPWATCH**

**Build a class component that works as a stopwatch.**

**Include "Start", "Stop", and "Reset" buttons.**

**Use state to keep track of the elapsed time and whether the stopwatch is running.**

import React, { Component } from 'react'

export default class Stopwatch extends Component {

    constructor(props) {

      super(props)

      this.state = {

         time: 0,

         running: false,

      }

      this.timer = null

    }

    start = () =>{

        if(!this.state.running){

            this.setState({

                running:true

            })

            this.timer = setInterval(() =>{

                this.setState({

                    time: this.state.time +10

                })

            },10)

        }}

    stop = () =>{

        clearInterval(this.timer)

        this.setState({

            running: false

        })}

    reset = () =>{

        clearInterval(this.timer)

        this.setState({

            running: false,

            time: 0

        })}

    formatTime = (time) =>{

        const minutes = String(Math.floor(time / 60000)).padStart(2,'0')

        const seconds = String(Math.floor(time % 60000)/1000).padStart(2,'0')

        const milliseconds = String(Math.floor(time % 1000)/10).padStart(2,'0')

        return`${minutes}:${seconds}:${milliseconds}`

    }

  render() {

    return (

      <div className='container mt-5 text-center'>

        <h2>Stopwatch</h2>

        <div className='display-4 mb-4'>{this.formatTime(this.state.time)}</div>

        <button

            className='btn btn-success mx-2'

            onClick={this.start}

            disabled={this.state.running}>Start</button>

        <button

            className='btn btn-danger mx-2'

            onClick={this.stop}

            disabled={!this.state.running}>Stop</button>

        <button

            className='btn btn-secondary mx-2'

            onClick={this.reset}>Reset</button>

      </div>

    )}}

**OUTPUT:**

