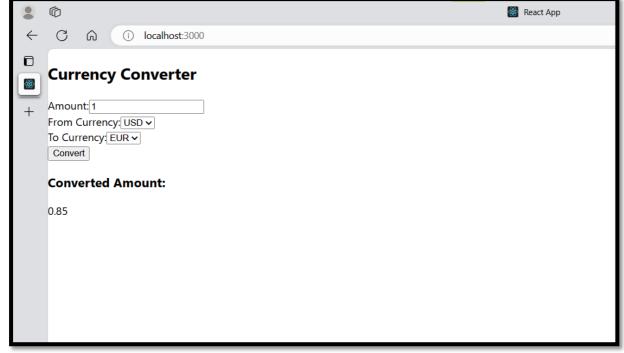
LAB Assignment :-8 Name – Aviram Yadav Roll no – 22cs3019

T1. Currency converter

```
import React, { useState } from 'react';
const CurrencyConverter = () => {
  const [amount, setAmount] = useState(");
  const [fromCurrency, setFromCurrency] = useState('USD');
  const [toCurrency, setToCurrency] = useState('EUR');
  const [convertedAmount, setConvertedAmount] = useState(");
  const exchangeRate = 0.85;
  const handleAmountChange = (e) => {
    setAmount(e.target.value);
  };
  const handleFromCurrencyChange = (e) => {
    setFromCurrency(e.target.value);
  };
  const handleToCurrencyChange = (e) => {
    setToCurrency(e.target.value);
  const convertCurrency = () => {
    const convertedValue = amount * exchangeRate;
    setConvertedAmount(convertedValue.toFixed(2));
  return (
      <h2>Currency Converter</h2>
        <label htmlFor="amount">Amount:</label>
        <input type="number" id="amount" value={amount} onChange={handleAmountChange} />
      </div>
        <label htmlFor="fromCurrency">From Currency:</label>
        <select id="fromCurrency" value={fromCurrency} onChange={handleFromCurrencyChange}>
          <option value="USD">USD</option>
      </div>
```



T2. Stopwatch application

```
import React, { useState, useEffect } from 'react';

const Stopwatch = () => {
  const [time, setTime] = useState(0);
  const [isRunning, setIsRunning] = useState(false);

useEffect(() => {
  let intervalId;
  if (isRunning) {
```

```
intervalId = setInterval(() => {
   setTime((prevTime) => prevTime + 1);
 }, 1000);
 } else {
 clearInterval(intervalId);
return () => clearInterval(intervalId);
}, [isRunning]);
const startStopwatch = () => {
setIsRunning(true);
const pauseStopwatch = () => {
setIsRunning(false);
const resetStopwatch = () => {
setIsRunning(false);
setTime(0);
const formatTime = (seconds) => {
const hours = Math.floor(seconds / 3600);
 const minutes = Math.floor((seconds % 3600) / 60);
 const remainingSeconds = seconds % 60;
 return `${hours.toString().padStart(2, '0')}:${minutes
  .toString()
  .padStart(2, '0')}:${remainingSeconds.toString().padStart(2, '0')}`;
return (
 <h1>Stopwatch</h1>
  {formatTime(time)}
  </div>
   {!isRunning ? (
    <button onClick={startStopwatch}>Start</button>
   ):(
   <button onClick={pauseStopwatch}>Pause</button>
   <button onClick={resetStopwatch}>Reset</button>
  </div>
 </div>
```



