Web Dev Assignment

Lab - 08

Name - Shikhar Roll No - 22IT3046

setAmount(e.target.value);

```
Ques 1:
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(null);
 const exchangeRate = 0.84; // Example exchange
rate from USD to EUR
 const handleAmountChange = (e) => {
```

```
};
 const handleFromCurrencyChange = (e) => {
  setFromCurrency(e.target.value);
 };
 const handleToCurrencyChange = (e) => {
  setToCurrency(e.target.value);
 };
 const handleConvert = () => {
  const converted = parseFloat(amount) *
exchangeRate;
  setConvertedAmount(converted.toFixed(2));
 };
 return (
  <div>
   <h2>Currency Converter</h2>
   <div>
    <label htmlFor="amount">Amount:</label>
    <input type="number" id="amount"</pre>
value={amount} onChange={handleAmountChange} />
   </div>
   <div>
```

```
<label htmlFor="fromCurrency">From:</label>
    <select id="fromCurrency" value={fromCurrency}</pre>
onChange={handleFromCurrencyChange}>
      <option value="USD">USD</option>
      <option value="EUR">EUR</option>
      {/* Add more options for other currencies */}
    </select>
   </div>
   <div>
    <label htmlFor="toCurrency">To:</label>
    <select id="toCurrency" value={toCurrency}</pre>
onChange={handleToCurrencyChange}>
      <option value="USD">USD</option>
      <option value="EUR">EUR</option>
      {/* Add more options for other currencies */}
    </select>
   </div>
   <but
onClick={handleConvert}>Convert</button>
   {convertedAmount && (
    >
      Converted Amount: {convertedAmount}
{toCurrency}
```

```
</div>
 );
export default CurrencyConverter;
Ques - 2:
import React, { useState, useEffect } from 'react';
const Stopwatch = () => {
 const [time, setTime] = useState(0);
 const [isRunning, setIsRunning] = useState(false);
 useEffect(() => {
  let intervalld;
  if (isRunning) {
   intervalId = setInterval(() => {
     setTime((prevTime) => prevTime + 1);
   }, 1000);
  } else {
   clearInterval(intervalId);
  }
  return () => clearInterval(intervalId);
```

```
}, [isRunning]);
 const startTimer = () => {
  setIsRunning(true);
 };
 const pauseTimer = () => {
  setIsRunning(false);
 };
 const resetTimer = () => {
  setTime(0);
  setIsRunning(false);
 };
 const formatTime = (time) => {
  const minutes = Math.floor(time / 60);
  const seconds = time % 60;
  return ${minutes < 10 ? '0' : "}${minutes}:${seconds
< 10 ? '0' : "}${seconds};
 };
 return (
  <div>
   <h2>Stopwatch</h2>
```