## Lab 8

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## **Question 1**

INR: {

```
Index.jsx
```

```
import React from 'react';
import ReactDOM from 'react-dom';
import App from './App';
ReactDOM.render(<App />, document.getElementById('root'));
App.jsx
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 exchangeRates = {
    USD: {
      EUR: 0.84,
      INR: 74.19
    },
    EUR: {
     USD: 1.19,
      INR: 83.32
    },
```

```
USD: 0.013,
     EUR: 0.012
  };
 const handleAmountChange = (e) => {
   setAmount(e.target.value);
  };
 const handleFromCurrencyChange = (e) => {
   setFromCurrency(e.target.value);
  };
 const handleToCurrencyChange = (e) => {
    setToCurrency(e.target.value);
  };
 const handleConvert = () => {
   const rate = exchangeRates[fromCurrency][toCurrency];
   const converted = parseFloat(amount) * rate;
   setConvertedAmount(converted.toFixed(2));
  };
 return (
   <div>
     <h2>Currency Converter</h2>
     <div>
       <label htmlFor="amount">Amount:</label>
       <input type="number" id="amount" value={amount}</pre>
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>
```

```
<option value="INR">INR</option>
</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>
<option value="INR">INR</option>
</select>
</div>
<button onClick={handleConvert}>Convert
{convertedAmount && (
<q>
Converted Amount: {convertedAmount} {toCurrency}
) }
</div>
) ;
};
export default CurrencyConverter;
Output
```

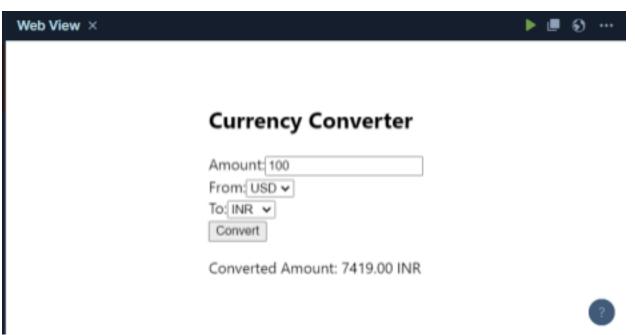


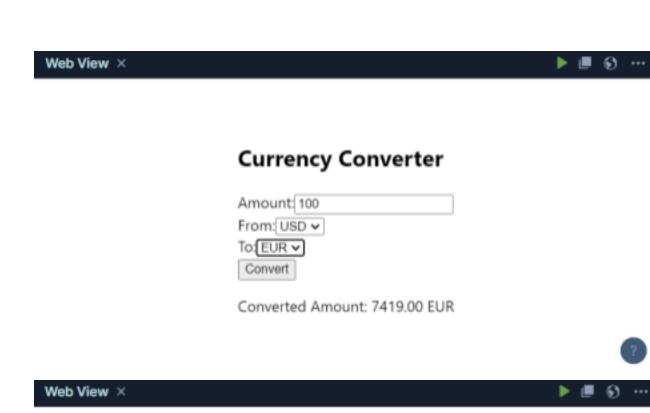
# **Currency Converter**



Converted Amount: 12.00 EUR







# **Currency Converter**



Converted Amount: NaN EUR

### **Question 2**

#### index.jsx

```
import React from 'react';
import ReactDOM from 'react-dom';
import App from './App';

ReactDOM.render(<App />, document.getElementById('root'));
```

```
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 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 className="stopwatch-container"> {/* Add a class for
styling */}
     <h2 className="stopwatch-header">Stopwatch</h2> {/* Add a
class for styling */}
     <div className="stopwatch-content"> {/* Add a class for
styling */}
       {formatTime(time)} {/* Add
a class for styling */}
       <div className="button-group"> {/* Add a class for styling
*/}
      <button className="start-button" onClick={startTimer}</pre>
 disabled={isRunning}>Start</button> {/* Add classes for styling
       <button className="pause-button" onClick={pauseTimer}</pre>
disabled={!isRunning}>Pause/button> {/* Add classes for styling */}
                  <button className="reset-button"</pre>
onClick={resetTimer}>Reset/button> {/* Add classes for styling */}
       </div>
     </div>
   </div>
 ) ;
};
export default Stopwatch;
```

#### CSS File

```
margin: 20px;
 padding: 20px;
 border: 1px solid #ccc;
 border-radius: 5px;
.stopwatch-header {
 font-size: 24px;
 margin-bottom: 10px;
.stopwatch-content {
 display: flex;
 align-items: center;
.stopwatch-time {
 font-size: 36px;
 margin-right: 20px;
 .button-group button
 { font-size: 18px;
 padding: 10px 20px;
 margin-right: 10px;
 border: none;
 border-radius: 5px;
 cursor: pointer;
.start-button {
 background-color: #5cb85c;
 color: #fff;
.pause-button {
 background-color: #d9534f;
 color: #fff;
```

```
.reset-button {
 background-color: #f0ad4e;
 color: #fff;
```

