```
import React, { useState } from 'react';
const CurrencyConverter = () => {
 const [amount, setAmount] = useState(");
 const [fromCurrency, setFromCurrency] = useState('USD');
 const [toCurrency, setToCurrency] = useState('INR');
 const exchangeRate = 88.47;
 const handleAmountChange = (e) => {
  setAmount(e.target.value);
 };
 const handleFromCurrencyChange = (e) => {
  setFromCurrency(e.target.value);
 },
 const handleToCurrencyChange = (e) => {
  setToCurrency(e.target.value);
 };
 const convertCurrency = () => {
  const convertedAmount = amount * exchangeRate;
  return convertedAmount.toFixed(2);
 };
 return (
  <div>
   <h2>Currency Converter</h2>
   <div>
    <label htmlFor="amount">Amount:</label>
    <input type="number" id="amount" value={amount} onChange={handleAmountChange} />
   </div>
   <div>
    <label htmlFor="fromCurrency">From Currency:</label>
    <select id="fromCurrency" value={fromCurrency}</pre>
onChange={handleFromCurrencyChange}>
      <option value="USD">USD</option>
```

```
<option value="EUR">EUR</option>
     {/* Add more currencies as needed */}
    </select>
   </div>
   <div>
    <label htmlFor="toCurrency">To Currency:</label>
    <select id="toCurrency" value={toCurrency} onChange={handleToCurrencyChange}>
      <option value="USD">USD</option>
      <option value="INR">EUR</option>
     {/* Add more currencies as needed */}
    </select>
   </div>
   <div>
    <button onClick={convertCurrency}>Convert</button>
   </div>
   <div>
    {amount && (
      >
       {amount} {fromCurrency} is equal to {convertCurrency()} {toCurrency}
     )}
   </div>
  </div>
);
};
```

export default CurrencyConverter;

Currency Converter

Amour	nt:	
From:	USD V	
To: US	SD 🗸	
Conve	ert	

```
const Stopwatch = () => {
 const [time, setTime] = useState(0);
 const [isRunning, setIsRunning] = useState(false);
 const intervalRef = useRef(null);
 const startStopwatch = () => {
  if (!isRunning) {
   setIsRunning(true);
   intervalRef.current = setInterval(() => {
     setTime(prevTime => prevTime + 1);
   }, 1000);
 }
 };
 const pauseStopwatch = () => {
  clearInterval(intervalRef.current);
  setIsRunning(false);
 };
 const resetStopwatch = () => {
  clearInterval(intervalRef.current);
  setTime(0);
  setIsRunning(false);
 };
 const formatTime = (timeInSeconds) => {
  const hours = Math.floor(timeInSeconds / 3600);
  const minutes = Math.floor((timeInSeconds % 3600) / 60);
  const seconds = timeInSeconds % 60;
  return ${hours.toString().padStart(2, '0')}:${minutes.toString().padStart(2,
'0')}:${seconds.toString().padStart(2, '0')};
};
 return (
  <div>
```

export default Stopwatch;

Stopwatch

00:00:00

Start / Stop Reset

Q3)

```
import React, { useState, useEffect } from 'react';
import firebase from 'firebase/app';
import 'firebase/database';

const firebaseConfig = {
   // Your Firebase configuration
};
```

firebase.initializeApp(firebaseConfig);

```
const MessagingApp = () => {
 const [conversations, setConversations] = useState([]);
 const [selectedConversation, setSelectedConversation] = useState(null);
 const [newMessage, setNewMessage] = useState(");
 useEffect(() => {
  const conversationsRef = firebase.database().ref('conversations');
  conversationsRef.on('value', (snapshot) => {
   const data = snapshot.val();
   if (data) {
     setConversations(Object.values(data));
   }
  });
 }, []);
 const selectConversation = (conversation) => {
  setSelectedConversation(conversation);
 };
 const sendMessage = () => {
  if (newMessage.trim() === ") return;
  const conversationRef =
firebase.database().ref(conversations/${selectedConversation.id}/messages);
  conversationRef.push({
   text: newMessage,
   sender: 'user', // or you can set it to the user's ID if you have user authentication
   timestamp: firebase.database.ServerValue.TIMESTAMP
  });
  setNewMessage(");
 };
```

```
return (
  <div>
   <h2>Conversations</h2>
   ul>
    {conversations.map(conversation => (
     key={conversation.id} onClick={() => selectConversation(conversation)}>
      {conversation.title}
    ))}
   {selectedConversation && (
    <div>
     <h3>{selectedConversation.title}</h3>
      {selectedConversation.messages.map(message => (
        <div key={message.id}>
         {message.text}
         <small>{message.sender}</small>
        </div>
      ))}
     </div>
     <input type="text" value={newMessage} onChange={(e) =>
setNewMessage(e.target.value)} />
     <button onClick={sendMessage}>Send</button>
    </div>
   )}
  </div>
);
};
```

export default MessagingApp;