

# LAB 9

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## Q1

```
<template>

  <div id="app">

    <h1>Currency Converter</h1>

    <input type="number" v-model="amount" placeholder="Enter amount"
  />

    <select v-model="fromCurrency">
      <option value="USD">USD</option>
      <option value="EUR">EUR</option>
    </select>

    <select v-model="toCurrency">
      <option value="USD">USD</option>
      <option value="EUR">EUR</option>
    </select>

    <button @click="convertCurrency">Convert</button>

    <p>{{ convertedAmount }}</p>
  </div>
</template>

<script>
export default {
  data() {
    return {
      amount: null,
      fromCurrency: 'USD',
      toCurrency: 'EUR',
```

```
    exchangeRate: {  
      USD: { EUR: 0.85 },  
      EUR: { USD: 1.18 },  
    },  
    convertedAmount: null,  
  };  
},  
methods: {  
  convertCurrency() {  
    this.convertedAmount = this.amount *  
this.exchangeRate[this.fromCurrency][this.toCurrency];  
  },  
},  
};  
</script>
```

Web View ×

# Currency Converter

100 USD ▼ EUR ▼ Convert

85

## Q2

```
<button @click="startStopwatch">Start</button>
<button @click="pauseStopwatch">Pause</button>
<button @click="resetStopwatch">Reset</button>
<p>{{ time }}</p>
</div>
</template>
```

```
<script>
export default {
  data() {
    return {
      time: 0,
      intervalId: null,
    };
  },
  methods: {
    startStopwatch() {
      this.intervalId = setInterval(() => {
        this.time++;
      }, 1000);
    },
    pauseStopwatch() {
      clearInterval(this.intervalId);
    },
    resetStopwatch() {
      this.time = 0;
    }
  }
}
```

```
<template>
<div id="app">
  <h1>Stopwatch</h1>
```

```
clearInterval(this.intervalId);  
  
},  
  
},  
};  
</script>
```

Web View X

# Stopwatch

Start

Pause

Reset

33

### Q3.

```
<template>  
  
  <div id="app">  
  
    <h1>Messaging App</h1>  
  
    <div v-for="conversation in conversations" :key="conversation.id">
```

```

        <h2 @click="selectConversation(conversation.id)">{{
conversation.name }}</h2>
    </div>
    <div v-if="selectedConversation">
        <div v-for="message in selectedConversation.messages"
:key="message.id">

```

```

        <p>{{ message.text }}</p>
    </div>
    <input type="text" v-model="newMessage" placeholder="Type a
message" />
    <button @click="sendMessage">Send</button>
</div>
</div>
</template>

<script>
export default {
  data() {
    return {
      conversations: [
        { id: 1, name: 'Conversation 1', messages: [] },
        { id: 2, name: 'Conversation 2', messages: [] },
      ],
      selectedConversation: null,
      newMessage: '',
    };
  },
  methods: {
    selectConversation(id) {
      this.selectedConversation = this.conversations.find(c => c.id
=== id);

```

```
    },  
    sendMessage() {  
      if (this.newMessage.trim() !== '') {  
        this.selectedConversation.messages.push({ id: Date.now(),  
text: this.newMessage });  
        this.newMessage = '';  
      }  
    },  
  },  
};  
</script>
```

# Messaging App

## Conversation 1

## Conversation 2

HI

HELLO