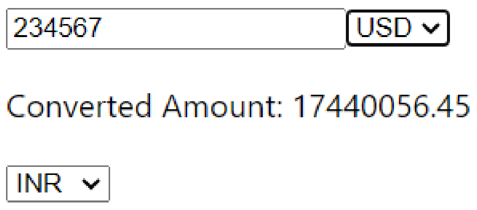
Chaitanya sai

22cs 3026

Q1

```
<template>
  <div>
    <input type="number" v-model="amount" @input="convertCurrency">
    <select v-model="fromCurrency" @change="convertCurrency">
      <option v-for="(currency, index) in currencies" :key="index" :value="currency">{{ currency
}}</option>
    </select>
    <p>Converted Amount: {{ convertedAmount }}</p>
    <select v-model="toCurrency" @change="convertCurrency">
      <option v-for="(currency, index) in currencies" :key="index" :value="currency">{{ currency
}}</option>
    </select>
  </div>
</template>

<script>
export default {
  data() {
    return {
      amount: 0,
      fromCurrency: 'USD',
      toCurrency: 'EUR',
      exchangeRate: {
        USD: {
          EUR: 0.85,
          GBP: 0.75,
          INR: 74.35 // INR exchange rate to USD
      },
      EUR: {
        USD: 1.18,
        GBP: 0.88,
        INR: 88.60 // INR exchange rate to EUR
      },
      GBP: {
        USD: 1.33,
        EUR: 1.14,
        INR: 103.45 // INR exchange rate to GBP
      },
      INR: {
        USD: 0.013,
        EUR: 0.011,
        GBP: 0.010 // GBP exchange rate to INR
      }
    }
  };
},
computed: {
  convertedAmount() {
    const rate = this.exchangeRate[this.fromCurrency][this.toCurrency];
    return (this.amount * rate).toFixed(2);
  },
  currencies() {
    return Object.keys(this.exchangeRate);
  }
},
methods: {
  convertCurrency() {
    // Conversion logic handled by computed property
    }
  }
};
</script>
```



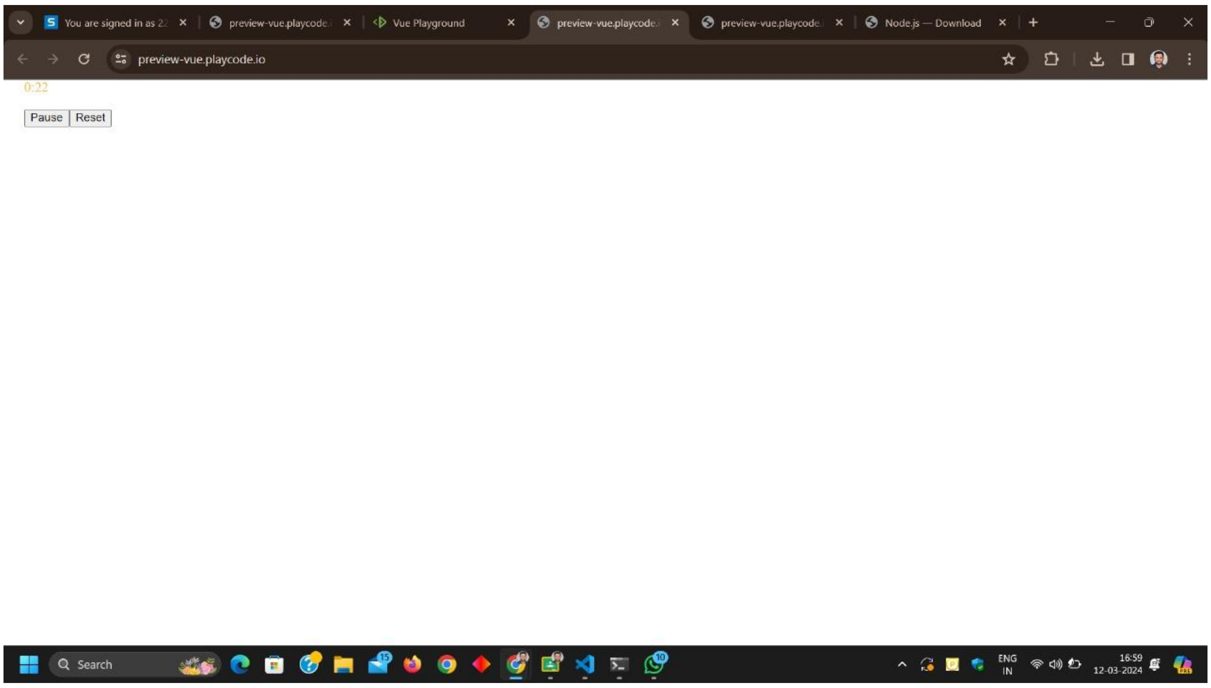
Converted Amount: 17440056.45

Q2

```
<template>
  <div>
    <p>{{ formattedTime }}</p>
    <button @click="startStopwatch" v-if="!running">Start</button>
    <button @click="stopStopwatch" v-else>Pause</button>
    <button @click="resetStopwatch">Reset</button>
  </div>
</template>

<script>
```

```
export default {
  data() {
    return {
      running: false,
      time: 0
    };
  },
  computed: {
    formattedTime() {
      const minutes = Math.floor(this.time / 60);
      const seconds = this.time % 60;
      return ${minutes}:${seconds < 10 ? '0' : ''}${seconds};
    }
  },
  methods: {
    startStopwatch() {
      this.running = true;
      this.timer = setInterval(() => {
        this.time++;
      }, 1000);
    },
    stopStopwatch() {
      this.running = false;
      clearInterval(this.timer);
    },
    resetStopwatch() {
      this.time = 0;
      this.running = false;
      clearInterval(this.timer);
    }
  }
};
</script>
```



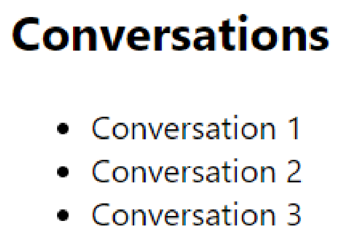
```
0:22
```

Q3

```
<template>
 <div>
  <div v-if="selectedConversation">
   <h2>{{ selectedConversation.name }}</h2>
   <ul>
    <li v-for="(message, index) in selectedConversation.messages" :key="index">
     {{ message }}
    </li>
   </ul>
   <input type="text" v-model="newMessage">
   <button @click="sendMessage">Send</button>
  </div>
  <div v-else>
   <h2>Conversations</h2>
   <ul>
```

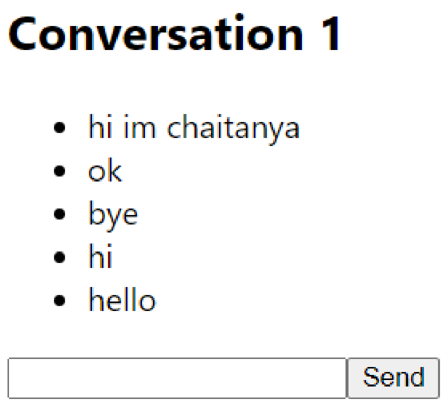
```
        <li v-for="(conversation, index) in conversations" :key="index"
@click="selectConversation(conversation)">
          {{ conversation.name }}
        </li>
      </ul>
    </div>
  </div>
</template>

<script>
export default {
  data() {
    return {
      conversations: [
        { id: 1, name: 'Conversation 1', messages: [] },
        { id: 2, name: 'Conversation 2', messages: [] },
        { id: 3, name: 'Conversation 3', messages: [] }
      ],
      selectedConversation: null,
      newMessage: ''
    };
  },
  methods: {
    selectConversation(conversation) {
      this.selectedConversation = conversation;
    },
    sendMessage() {
      if (this.selectedConversation && this.newMessage.trim() !== '') {
        this.selectedConversation.messages.push(this.newMessage.trim());
        this.newMessage = '';
        // Save to local storage for persistence
      localStorage.setItem('conversations', JSON.stringify(this.conversations));
    }
  }
 },
 mounted() {
  // Retrieve conversations from local storage on component mount
  const storedConversations = localStorage.getItem('conversations');
  if (storedConversations) {
   this.conversations = JSON.parse(storedConversations);
  }
 }
};
</script>
```



Conversations

- Conversation 1
- Conversation 2
- Conversation 3



Conversation 1

- hi im chaitanya
- ok
- bye
- hi
- hello