**CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY**

**Chandubhai S Patel Institute of Technology**

**U & P U. Patel Department of Computer Engineering**

**Subject Name:** Advanced Web Technology

**Subject Code:** CE354

**Semester:** 5th **Academic Year:** 2023-24

Practical 13

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| **Aim:** | **Write a program that uses Promises to handle asynchronous operations. For example, create a function that returns a Promise to fetch data from an API and resolve it with the fetched data. Implement error handling using Promises by rejecting a Promise with an error message in case of failure** |
| **Code:** | *// Simulated function to fetch data from an API asynchronously*  function fetchDataFromAPI() {    return new Promise((*resolve*, *reject*) => {      setTimeout(() => {        const data = { name: "Ronak", age: 20, city: "Changa" };        resolve(data);      }, 2000);    });  }  console.log("Fetching data from the API...");  fetchDataFromAPI()    .then((*data*) => {      console.log("Data received:", *data*);      console.log("Processing data...");      console.log("Data processing completed.");    })    .catch((*error*) => {      console.error("Error:", *error*);    })    .finally(() => {      console.log("API request completed.");    });  console.log("Program continues to execute other tasks..."); |
| **Output:** |  |