Module 13) Javascript ES6 Object Oriented Concepts

1) What is JSON

Ans : JSON stands for **J**ava**S**cript **O**bject **N**otation

JSON is a lightweight format for storing and transporting data

JSON is often used when data is sent from a server to a web page

JSON is "self-describing" and easy to understand

JSON Example :

{  
"employees":[  
    {"firstName":"John", "lastName":"Doe"},  
    {"firstName":"Anna", "lastName":"Smith"},  
    {"firstName":"Peter", "lastName":"Jones"}  
]  
}

2) What is promises

ANS :A promise is a javascript object that links producing code and consuming code.

A promise is a promise of code execution.the code is either executes or fails.

Promises syntax :

let myPromise = new Promise(function(myResolve, myReject) {  
// "Producing Code" (May take some time)  
  
  myResolve(); // when successful  
  myReject();  // when error  
});  
  
// "Consuming Code" (Must wait for a fulfilled Promise)  
myPromise.then(  
  function(value) { /\* code if successful \*/ },  
  function(error) { /\* code if some error \*/ }  
);

3) Write a program of promises and handle that promises also

var promise =new Promise(function(resolve,reject)

    {

      const x ="hii";

      const y = "Hello";

      if(x==y)

      {

        resolve();

      }

      else{

        reject();

      }

    });

    promise.then(function(){

      console.log("Resolve Both vals are equal");

    })

    .catch(function()

    {

      console.log("Reject..Both the vals are Unequal");

    })

4)Use fetch method for calling an api <https://fakestoreapi.com/products>

 fetch("https://fakestoreapi.com/products")

          .then(function (resp) {

            return resp.json();

          })

          .then(function (data) {

            return console.log(data);

          })

          .catch(function (err) {

            console.log(err);

          });

5)Display all the product from the api in your HTML page

<body>

    <button onclick="fetchData()">Fetch Data</button>

    <div class="container">

      <div class="row" id="btn"></div>

    </div>

    <script>

        fetch("https://fakestoreapi.com/products")

          .then(function (resp) {

            return resp.json();

          })

          .then(function (data) {

            return console.log(data);

          })

          .catch(function (err) {

            console.log(err);

          });

      let btn = document.getElementById("btn");

      function showData(newData) {

        for (const myData of newData) {

          let htmlData = `

        <div class="col-md-3">

        <div class="card">

          <img src="${myData.image}" class="card-img-top" alt="" />

          <div class="card-body">

            <h5 class="card-title">${myData.title}</h5>

            <p class="card-text">${myData.description.slice(0, 20)}...</p>

            <p class="card-text">Price : ${myData.price}</p>

            <a href="#" class="btn btn-primary">Order Now</a>

          </div>

        </div>

      </div>`;

          btn.insertAdjacentHTML("afterbegin", htmlData);

        }

      }

      function fetchData() {

        fetch("https://fakestoreapi.com/products")

          .then((resp) => {

            return resp.json();

          })

          .then((data) => {

            showData(data);

          })

          .catch((err) => console.log(err));

      }

    </script>

    </body>