**`Template Literals`(HTML Injection)**

The main objective behind making of JavaScript is to add, modify HTML elements.

Literals are used for combining **JavaScript and HTML**.

**Declaration:**

const inject = **`**HTML+JS**`**;

**For injecting into HTML Document**

1. Select the HTML First.
2. Use InnerHTML

Ex- **Body Injection**

For adding table inside Body

const inject = `<table>

<tr>

  <th>Name</th>

  <th>Age</th>

  <th>Occupation</th>

</tr>

<tr>

  <td>Ron</td>

  <td>19</td>

  <td>Student</td>

</tr>

</table>`;

document.body.innerHTML=inject;

**Why to use literals ?**

The main advantage of using literal that it allows to access JS content inside literal and allow this to inject into our webpage

Use ${ } inside literal to use functionality of JS inside the literal.

1. Create a person object in JS.
2. Populate the date of this object inside literal using ${}.
3. Finally inject the code into html.

const person1 ={

  name:'Ron',

  age: 19,

  occupation:'Student'

};

const inject = `<table>

<tr >

  <th>Name</th>

  <th>Age</th>

  <th>Occupation</th>

</tr>

<tr>

  <td>${person1.name}</td>

  <td>${person1.age}</td>

  <td>${person1.occupation}</td>

</tr>

</table>`;

document.body.innerHTML=inject;

**Problem Statement:**

const persons={

  name:['Ron','James','Max'],

  age:[19,20,23],

  occupation:['Student','Engineer','Salesman']

}

let inject =`

    <table>

      <tr>

      <th>Name</th>

      <th>Age</th>

      <th>Person</th>

      </tr>

`;

for(let i=0;i<persons.age.length;i++){

  inject= inject +

    `

      <tr>

      <td>${persons.name[i]}</td>

      <td>${persons.age[i]}</td>

      <td>${persons.occupation[i]}</td>

      </tr>

    `;

}

inject =inject+`</table>`

document.body.innerHTML=inject;

Using literal for injecting data of 3 person with less line of html code.

Solution: ->

**You can see in the solution that you see JS for creating HTML Code like in this problem we JS for creating 3 rows by writing code of 1 row only and also the output of each row is control by JS.**

This concept is the base of today most of the front end web application frameworks like React.JS, Vue, Angular, etc.