Assignment Day 6 | 21th July 2020

Question 1:

Write a program that will iterate over an array of colors and change the background of the page after 5 seconds.

Answer:

```html
<html>

<body>

<script>

 var c = ["blue", "black", "yellow", "red"];

 function changeColor() {

  setTimeout(function loop() {

   document.bgColor = c.shift();

   if (c.length) {

    setTimeout(loop, 5000);

   }

  }, 5000);

 }

 function start() {

  setInterval(changeColor(), 20000);

 }

</script>

<body onload="start()">

</body>

</html>
```

Question 2:

Write a program that will display the multiplication table of a number on the webpage in a proper format. Take the input from the user.

Input - 5

Output - 5 x 1 = 5

   5 x 2 = 10

   and so on…

Answer:

```html
<!--JavaScript - Function to Display Table of an entered Number.-->

<html>

<head>

<title>JavaScript - Function to Display Table of an entered Number.</title>

<script type="text/javascript">

var input  = prompt("Enter the number:");

for (var i = 1; i <= 10; i++) {

console.log(input + " * " + i + " = " + input * i);

}

let num = parseInt(prompt("Plaese enter a number"));

for(let i = 1; i <= 10; i++)

{

   document.write(`${num} x  ${i} = ${num * i}<br>`);

}

</script></head>

<body><h2>"You have enter number table:First Table"</h2>

        <h2>Second Entered number  Table: Output in Console</h2></body>

</html>
```

Question 3:

Make a webpage that will ask the name of the user. Then will display a welcome message on the webpage. Also the webpage should also have a clock.

Using the toggle method of classList add a dark mode feature to the website.

Answer:

```
<!DOCTYPE html>

<html>

<head>

  <meta charset="utf-8">

  <meta http-equiv="X-UA-Compatible" content="IE=edge">

  <title>Question 3</title>

  <style type="text/css">

    body {

  padding: 25px;

  background-color: white;

  color: black;

  font-size: 25px;

}


.dark-mode {

  background-color: black;

  color: white;

}

button{
```

```
      font-size: 1em;

  }

    </style>

    <script>




    function myFunction() {

  var element = document.body;

  element.classList.toggle("dark-mode");

  }




 var getName = prompt("What is your name ?");

 if (getName === null || !isNaN(getName)){

    while (getName !== null || isNaN(getName)){

      alert("Invalid name, please try again");

      getName = prompt("What is your name ? ");

      console.log(getName)

     if (getName !== null || !isNaN(getName)){

        document.write("Hello ", getName);

        break;


     }

   }
 }else {
```

```
    alert("Welcome"+"  "+getName);

    document.write("Hello ", getName);

}

function startTime() {

  var today = new Date();

  var h = today.getHours();

  var m = today.getMinutes();

  var s = today.getSeconds();

  m = checkTime(m);

  s = checkTime(s);

  document.getElementById('txt').innerHTML =

  h + ":" + m + ":" + s;

  var t = setTimeout(startTime, 500);

}

function checkTime(i) {

  if (i < 10) {i = "0" + i};  // add zero in front of numbers < 10

    return i;

}

    </script>

</head>

<body onload="startTime()">

<div id="txt">TIME IS NOW</div>

<button id="toggle" onclick="myFunction()">Turn in to dark mode/white mode</button>

</body>

</html>
```