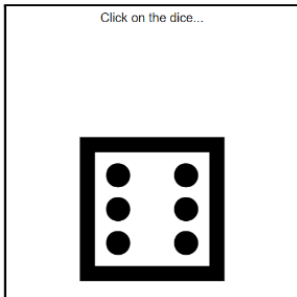


Problem statement:

With your knowledge gained on JavaScript concepts prepare a code to design a rolling dice that rolls automatically and stop rolling when it is clicked.



Solution:

Html Code:

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Dice Roll</title>
  <!-- css file -->
  <link rel="stylesheet" href="dice.css">
</head>

<body>
  <!-- main div -->
  <div class="main">
    <!-- head div for heading and instructions -->
    <div class="head">
      <h1>Rolling Dice</h1>
      <h4>Click on the dice to obtain your dice value.</h4>
    </div>
    <!-- container div for dice -->
    <div class="container" id="container">
      <img src="" alt="Dice image" id="diceShow" onclick="stopDice()">
    </div>
    <!-- div to display message after dice stops -->
    <div id="instruction">

  </div>
</div>
  <!-- js file -->
  <script src="dice.js" type="text/javascript"></script>
</body>

</html>
```

JS Code:

```
/*declaration of variable to store dice rolling intervals,
which is 0.1 seconds or 100 milliseconds*/
var diceValue = window.setInterval(displayImage, 100);
//declaration of dice array of dice images
const dice = [];
dice[0] = "https://cdn-icons-png.flaticon.com/512/0/751.png";
dice[1] = "https://cdn-icons-png.flaticon.com/512/0/2.png";
dice[2] = "https://cdn-icons-png.flaticon.com/512/37/37561.png";
dice[3] = "https://cdn-icons-png.flaticon.com/512/0/963.png";
dice[4] = "https://cdn-icons-png.flaticon.com/512/565/565745.png";
dice[5] = "https://cdn-icons-png.flaticon.com/512/0/165.png";

//function to automatically start the dice rolling
function displayImage() {
    //randomly selecting the dice image from the array
    const randomImage = Math.floor(Math.random() * dice.length);
    //updating this randomImage in src value of the img tag in HTML code
    document.getElementById('diceShow').src = dice[randomImage];
}

//function to stop/start dice on clicking it
function stopDice() {
    //stopping dice on clicking it, checks if diceValue has value greater than -1
    if (diceValue > -1) {
        //clears interval
        clearInterval(diceValue);
        //message displayed underneath dice when it is stopped
        document.getElementById('instruction').innerHTML = "<h4>Click on the dice again to
restart.</h4>";
        //stores -1 value in diceValue
        diceValue = -1;
    } else {
        //to restart dice on click
        diceValue = setInterval(displayImage, 100);
        //removing the message displayed on stopping the dice
        document.getElementById('instruction').innerHTML = "";
    }
}
```

CSS Code:

```
/* importing google font */
@import url('https://fonts.googleapis.com/css2?family=Play:wght@400;700&display=swap');
/* universal selector */
*{
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: 'Play', sans-serif;
}
/* body styling */
```

```

body{
    background-image: url(diceBack.jpg);
    background-size:cover;
    background-attachment: fixed;
}
/* styling of main div */
.main {
    display: flex;
    flex-direction: column;
    gap: 2em;
    background-color: #FA647D;
    text-align: center;
    padding: 2em;
    width: 30%;
    margin: auto;
    height: 60vh;
    border-radius: 1em;
    margin-top: 4em;
    opacity: 0.9;
}
/* styling of all H4 tag in main div */
.main h4{
    font-style: italic;
}
/* styling of head div */
.head{
    display: flex;
    flex-direction: column;
    gap: 2em;
}
/* styling of H4 tag in the instruction div */
#instruction h4{
    color:red;
    background-color: antiquewhite;
    padding: 1em;
    border-radius: 0.5em;
}
/* styling of img in container div for dice */
.container img {
    cursor: pointer;
    width: 10em;
    height: 10em;
}
/* responsive settings and styling for normal devices upto 800px width */
@media only screen and (max-width:800px){
    .main {
        display: flex;
        flex-direction: column;
        gap: 1em;
        background-color: #FA647D;
        text-align: center;
        padding: 2em;
        width: 80%;
        margin: auto;
    }
}

```

```

    height: 60vh;
    border-radius: 1em;
    margin-top: 4em;
    font-size: 0.8em;
  }
}
/* for bigger screen mobile devices within range of 820 to 1000px width*/
@media only screen and (min-width:820px) and (max-width:1000px){
  .main {
    display: flex;
    flex-direction: column;
    gap: 2em;
    background-color: #67EB65 ;
    text-align: center;
    padding: 2em;
    width: 80%;
    margin: auto;
    height: 70vh;
    border-radius: 1em;
    margin-top: 4em;
    font-size: 1.5em;
  }
}

```

Output:



Rolling Dice automatically as the page loads



Dice stops on clicking it and the message displays