

LAB EXPERIMENT -5

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Task 1 : Traffic Light

Code :

```
<!DOCTYPE html>
<html>
<head>
  <style>
    body
    {
      display: flex;
      flex-direction: column;
      justify-content: center;
      align-items: center;
      height: 100vh;
    }
    .a{
      height: 450px;
width: 200px;
border-radius: 25px;
      background-color: #404040;
      display: flex;
      flex-direction: column;
      align-items: center;
      justify-content: center;}
    .b{
      font-size: 30px;
```

```

        font-weight:bold;
        font-family: sans-serif;}

.c{
    font-size: 20px;
    margin-bottom: 20px;

.l{
    background-color: grey;
    height:110px;
    width:110px;
    border-radius: 120px;
    margin: 15px;
    display:flex;
    align-items: center;
    justify-content: center;
}

.pp{
    font-size: 30px;
    font-weight: bold;
    font-family: sans-serif;}

</style><script>
    function checkLight(){
        let color= document.getElementById("col").value;
        let rr= document.getElementById("r");
        let yy= document.getElementById("y");
        let gg= document.getElementById("g");
        let wr= document.getElementById("ff");
        let yr= document.getElementById("gg");
        let gr= document.getElementById("hh");
        switch(color){
            case "red":
                rr.style.background="red";
                yy.style.background="grey";

```

```

        gg.style.background="grey";
        wr.innerText="Stop";
        yr.innerText="";
        gr.innerText="";
        break;
    case "yellow":
        yy.style.background="yellow";
        rr.style.background="grey";
        gg.style.background="grey";
        yr.innerText="WAIT";
        wr.innerText="";
        gr.innerText="";
        break;
    case "green":
        gg.style.background="green";
        yy.style.background="grey";
        rr.style.background="grey";
        gr.innerText="GO";
        wr.innerText="";
        yr.innerText="";
        break;
    default:
        signal.innerText="";}}

```

```

</script></head><body>
<p class="b">Select a Traffic Light Color</p>
<div style="display:flex;">
<select class="c" id="col">
    <option value="" disabled selected>Select a color</option>
    <option value="red">RED</option>
    <option value="yellow">YELLOW</option>
    <option value="green">GREEN</option>
</select>

```

```

<button class= "c" style="margin-left:20px;"onclick="checkLight()">Show
Meaning</button></div><div class="a" id="sig">

    <div class="l" id="r"><p class="pp" id="ff"></p></div>

    <div class="l" id="y"><p class="pp" id="gg"></p></div>

    <div class="l" id="g"><p class="pp" id="hh"></p></div>

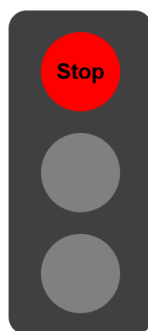
</div></body></html>

```

OUTPUT :

Select a Traffic Light Color

RED



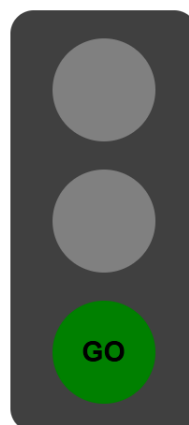
Select a Traffic Light Color

YELLOW



Select a Traffic Light Color

GREEN



TASK 2: Flames

Code :

```
<!DOCTYPE html>

<html>

<head>

    <style>

        body{

            display:flex;

            justify-content:center;

            align-items: center;

            height: 100vh;

            background-image:radial-gradient(circle, orange, darkred);

        }

        .a1{

            display:flex;

            flex-direction: column;

            align-items: center;

            justify-content: center;

            width: 550px;

            height: 480px;

            background-color:orangered;

            border-radius: 20px;

        }

        .a{

            display:flex;

            flex-direction: column;

            align-items: center;

            width: 500px;

            height: 440px;

            background-color:black;

            border-radius: 20px;
```

```
        border: 10px solid #efe904;
    }
    .b{
        font-size: 45px;
        font-family:"Lucida Handwriting";
        font-weight: bold;
        color:#fae72d;
        letter-spacing: 3px;
        text-shadow:4px 4px 4px #fd5a22;
    }
    .c{
        height: 40px;
        width: 180px;
        font-size: 30px;
        font-weight: bold;
        font-family: revert-layer;
        color: red;
        text-align: center;
        background-color:#ffd700 ;
        border-radius: 20px;
        border: 5px solid orangered;
        margin-bottom: 20px;
    }
    .d{
        height: 50px;
        width: 120px;
        font-size: 30px;
        font-weight: bold;
        font-family: revert-layer;
        color:white;
        text-align: center;
        background-color:red ;
```

```

        border: 0px;

        border-radius: 20px;

        margin-bottom: 20px;}

.d:hover{

        transform: scale(1.1);

        background-color: deeppink;

        color:white ;

        cursor: pointer;}

.e{

        font-size: 30px;

        font-weight: bold;

        color:white;

        font-family: sans-serif;}

</style>

<script>

    function check() {

let a = document.getElementById("name1").value;

let b = document.getElementById("name2").value;

let wr = document.getElementById("a");

let a1=a;

let b1=b;

a=a.toLowerCase();

b=b.toLowerCase();

let flames =['Friends','Lovers','Affectionate','Married','Enemies','Siblings'];

console.log(a);

console.log(b);


for (var i = 0; i < a.length; i++) {

    for (var j = 0; j < b.length; j++) {

        if (a[i] === b[j]) {

            a = a.slice(0, i) + a.slice(i + 1);

            b = b.slice(0, j) + b.slice(j + 1);

```

```
        i--;

        j--;

        break;
    }

}

}

c=a+b;

len = c.length;

num = (len%6)-1;

if(num == -1)

{

    num = 5;

}

console.log(len);

console.log(num);

    wr.innerHTML = a1+" and "+b1+" are "+flames[num];

}

</script>

</head>

<body>

    <div class="a1">

        <div class="a">

            <p class="b">Flames</p>

            <input class="c" id="name1" type="name">

            <input class="c" id="name2" type="name">

            <button class="d" onclick="check()">CHECK</button>

            <p class="e" id = "a"></p>

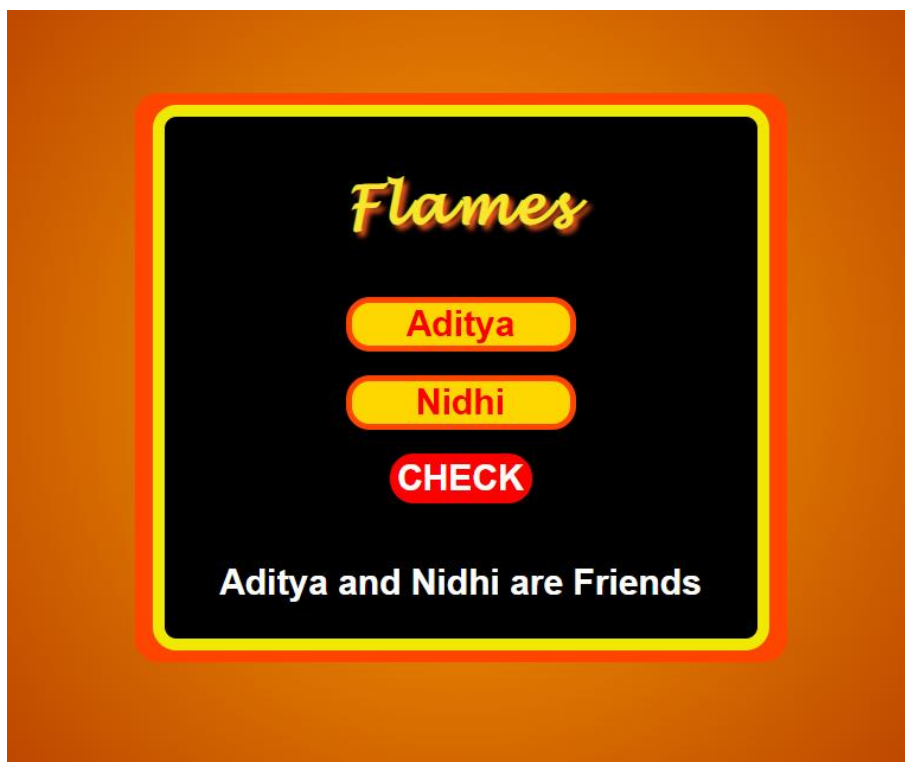
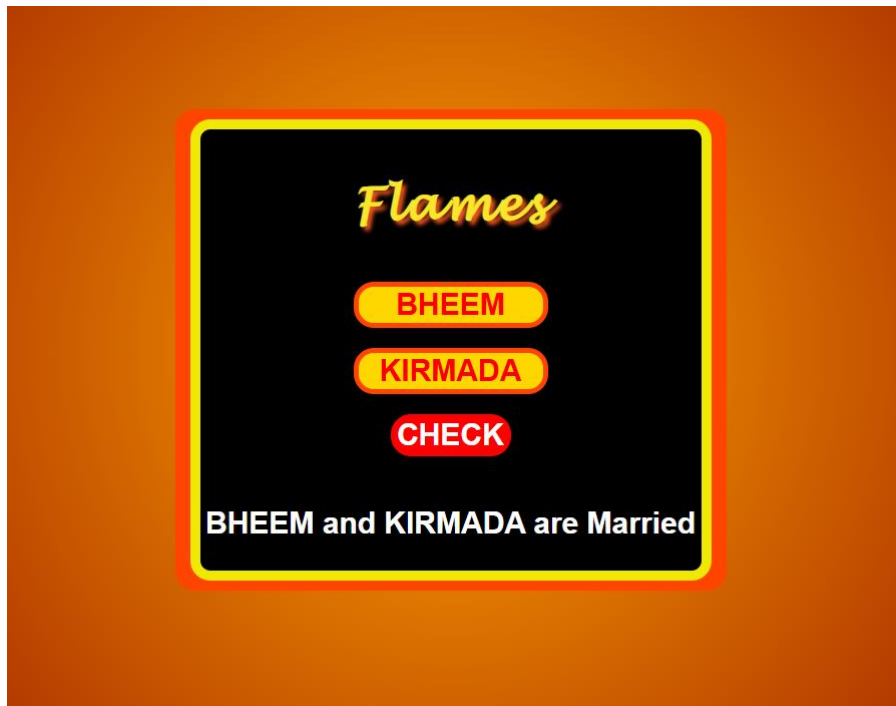
        </div>

    </div>

</body>

</html>
```


OUTPUT :



Flames

Shaan

Ankana

CHECK

Shaan and Ankana are Enemies

Flames

Aryan

Astha

CHECK

Aryan and Astha are Siblings

TASK 3 : Guess The Number

CODE :

```
<!DOCTYPE html>

<html>

<head>

    <style>

        body{

            display:flex;

            justify-content:center;

            align-items: center;

            height: 100vh;

            background-color: #3a1f04;

        }

        .a{

            display:flex;

            flex-direction: column;

            align-items: center;

            width: 500px;

            height: 380px;

            background-color:#f9a602;

            border-radius: 20px;

            border: 10px solid #7c4700;

        }

        .b{

            font-size: 35px;

            font-family: sans-serif;

            font-weight: bold;

            color:#3a1f04;

            text-shadow:2px 2px 2px #7c4700;

            text-align: center;}

        .c{
```

```
height: 40px;
width: 180px;
font-size: 30px;
font-weight: bold;
font-family: revert-layer;
color: #7c4700;;
text-align: center;
background-color:#ffd700 ;
border-radius: 20px;
border: 5px solid #7c4700;
margin-bottom: 20px;}

.d{

height: 50px;
width: 120px;
font-size: 30px;
font-weight: bold;
font-family: revert-layer;
color:white;
text-align: center;
background-color:#7c4700 ;
border: 0px;
border-radius: 20px;
margin-bottom: 20px;
}

.d:hover{

transform: scale(1.1);
background-color: white;
color:#7c4700 ;
cursor: pointer;
}

.e{

font-size: 25px;
```

```
        font-weight: bold;

        color:#3a1f04;

        font-family: sans-serif;

        text-align: center;

    }
</style>
<script>

    var at = 1;

    let gn = Math.ceil(Math.random()*10);

    console.log(gn);

    function check(){

    let a = document.getElementById("name1").value;

    let wr = document.getElementById("a")

    if(a == gn){

        wr.style.color="blue";

        wr.innerText = "CORRECT!\nAttempts required = "+at;}

    else

    {

        wr.innerText = "No";

        wr.style.color="red";

        wr.innerText = "TRY AGAIN\nAttempt number: "+at;

        at++;} }

</script></head><body>

<div class="a">

    <p class="b">GUESS THE NUMBER(1-10)</p>

    <input class="c" id="name1" type="name">

    <button class="d" onclick="check()">Guess</button>

    <p class="e" id = "a"></p>

</div></body></html>
```

OUTPUT :

GUESS THE NUMBER(1-10)

6

Guess

TRY AGAIN
Attempt number: 1

GUESS THE NUMBER(1-10)

3

Guess

TRY AGAIN
Attempt number: 2

GUESS THE NUMBER(1-10)

8

Guess

CORRECT!
Attempts required = 3

TASK 4 : TO DO LIST

CODE :

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
body {
```

```
    font-family: Arial, sans-serif;
```

```
    text-align: center;
```

```
    margin: 50px;
```

```
    background-color: #808080;
```

```
    display: flex;
```

```
    justify-content: center;
```

```
    align-items: center;
```

```
    height: 60vh;
```

```
}
```

```
#todo-container {
```

```
    background-color: white;
```

```
    width: 400px;
```

```
    margin: auto;
```

```
    padding: 20px;
```

```
    border: 1px solid #ccc;
```

```
    border-radius: 10px;
```

```
    box-shadow: 5px 5px 20px rgba(1,2,2,5);
```

```
}
```

```
ul {
```

```
    list-style: none;
```

```
    padding: 0;
```

```
}
```

```
li {
```

```

    display: flex;
    justify-content: space-between;
    padding: 8px;
    border-bottom: 1px solid #ddd;
}

button {
    background-color: red;
    color: white;
    border: none;
    padding: 5px;
    cursor: pointer;
    border-radius: 20%;
}

</style>
</head>
<body>
    <div id="todo-container">
        <h2>To-Do List</h2>
        <input type="text" id="task" placeholder="Add a task">
        <button onclick="addTask()">Add</button>
        <ul id="todo-list"></ul>
    </div>
    <script>
        function addTask() {
            let taskInput = document.getElementById("task");
            let taskValue = taskInput.value;
            let li = document.createElement("li");
            li.innerHTML = `${taskValue} <button onclick="removeTask(this)">X</button>`;
            document.getElementById("todo-list").appendChild(li);
            taskInput.value = "";
        }

        function removeTask(button) {

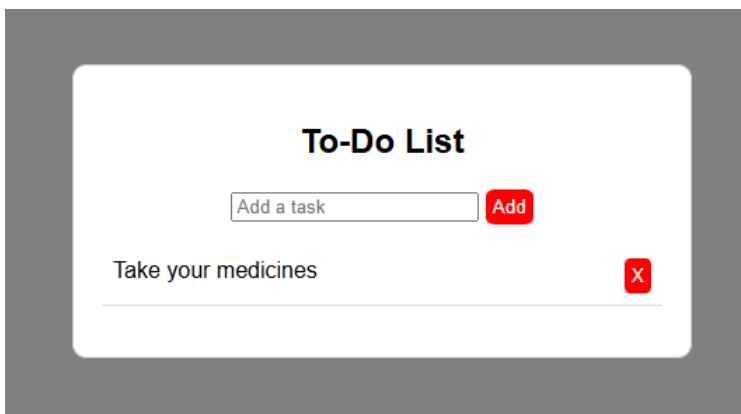
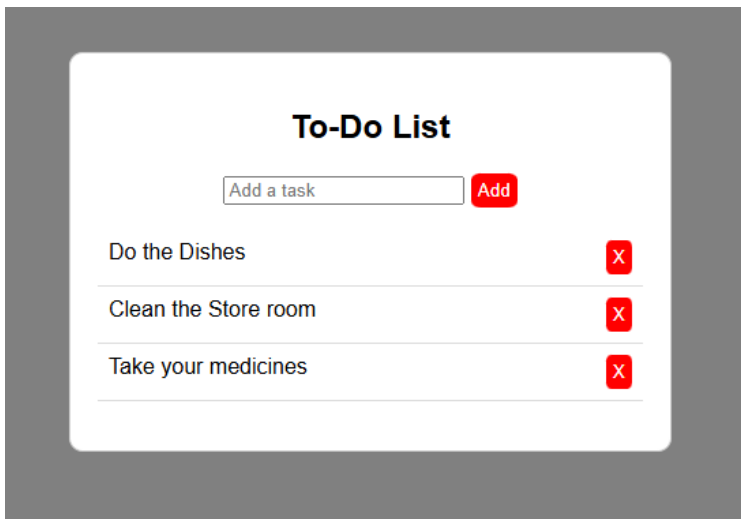
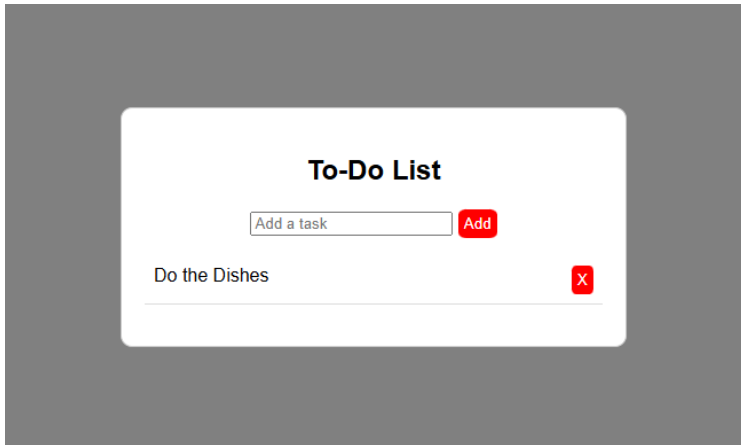
```



```
button.parentElement.remove(); }
```

```
</script></body></html>
```

OUTPUT :



TASK 5 : Draw Shapes

CODE :

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <style>
```

```
    body {
```

```
      display: flex;
```

```
      flex-direction:column;
```

```
      justify-content: center;
```

```
      align-items: center;
```

```
      height:100vh;}
```

```
    .a{
```

```
      height:450px;
```

```
width:200px;
```

```
border-radius: 25px;
```

```
      background-color:#404040;
```

```
      display: flex;
```

```
      flex-direction: column;
```

```
      align-items: center;
```

```
      justify-content: center;}
```

```
    .b{
```

```
      font-size:30px;
```

```
      font-weight:bold;
```

```
      font-family: sans-serif;}
```

```
    .c{
```

```
      font-size: 20px;
```

```
      margin-bottom: 20px;}
```

```
    .l{
```

```
      background-color: grey;
```

```
      display:flex;
```

```
      align-items: center;
```

```
        justify-content: center;}

.pp{

    font-size: 30px;

    font-weight: bold;

    font-family: sans-serif;}

</style><script>

    function checkLight(){

        let color= document.getElementById("col").value;

        let rect= document.getElementById("r");

        let yy= document.getElementById("y");

        let gg= document.getElementById("g");

        let wr= document.getElementById("ff");

        let yr= document.getElementById("gg");

        let gr= document.getElementById("hh");

switch(color){

        case "rectangle":

            rect.style.width="300px";

            rect.style.height="200px";

            rect.style.background="blue";

            rect.style.border="5px solid black";

            break;

        case "square":

            rect.style.width="200px";

            rect.style.height="200px";

            rect.style.background="green";

            rect.style.border="5px solid black";

            break;

        case "circle":

            rect.style.width="230px";

            rect.style.height="230px";

            rect.style.borderRadius="50%";

            rect.style.background="yellow";
```

```

        rect.style.border="5px solid black";

        break;

    case "triangle":
rect.style.width = "0";

        rect.style.height = "0";

        rect.style.borderLeft = "115px solid transparent";

        rect.style.borderRight = "115px solid transparent";

        rect.style.borderBottom = "200px solid red";

        rect.style.borderRadius = "0";

        rect.style.background = "none";

        break;

    default:

        signal.innerText="";}}

</script>

</head>

<body>

    <div style="display:flex;margin-bottom: 30px;position: absolute; flex-direction: column;">

        <p class="b">Select a Shape</p>

        <select class="c" id="col">

            <option value="" disabled selected>Select a Shape</option>

            <option value="rectangle">Rectangle</option>

            <option value="square">Square</option>

            <option value="circle">Circle</option>

        </select>

        <button class= "c" style="margin-left:20px;"onclick="checkLight()">Show Meaning</button>

    <div class="l" id="r"></div>

</div>

</body>

</html>

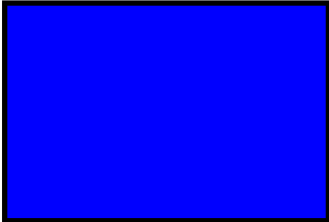
```

OUTPUT :

Select a Shape

Rectangle ▾

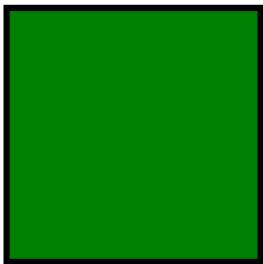
DRAW THE SHAPE



Select a Shape

Square ▾

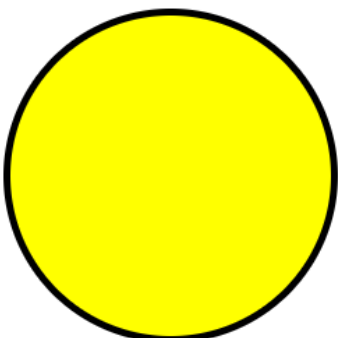
DRAW THE SHAPE



Select a Shape

Circle ▾

DRAW THE SHAPE



TASK 6 : Random Emoji Generator

CODE :

```
<!DOCTYPE html>
```

```
<html><head><style>
```

```
    body{
```

```
        display:flex;
```

```
        justify-content:center;
```

```
        align-items: center;
```

```
        height: 100vh;
```

```
        background-color: #3a1f04;
```

```
    }
```

```
    .a{
```

```
        display:flex;
```

```
        flex-direction: column;
```

```
        align-items: center;
```

```
        width: 500px;
```

```
        height: 380px;
```

```
        background-color:black;
```

```
        border-radius: 20px;
```

```
        border: 10px solid white;}
```

```
    .b{
```

```
        text-align: center;
```

```
        font-size: 35px;
```

```
        font-family: sans-serif;
```

```
        font-weight: bold;
```

```
        color:white;
```

```
        text-shadow:2px 2px 2px #7c4700;}
```

```
    .d{
```

```
        height: 50px;
```

```
        width: 180px;
```

```
        font-size: 30px;
```

```
        font-weight: bold;
```

```

        font-family: revert-layer;

        color:white;

        text-align: center;

        background-color:#7c4700 ;

        border: 0px;

        border-radius: 20px;}

.d:hover{

        transform: scale(1.1);

        background-color: white;

        color:#7c4700 ;

        cursor: pointer;]

.e{

        margin: 0px;

        font-size: 100px;          }

</style>

<script>

    let a =

['&#x1F600','&#x1F601','&#x1F602','&#x1F60D','&#x1F431','&#x1F436','&#x1F44D','&#x1F44E','&#x1F609'

,'&#x1F60F','&#x1F923','&#x1F634','&#x1F62D','&#x1F609','&#x1F4A9','&#x1F480','&#x1F389','&#x1F4B0',

'&#x1F48B','&#x1F4C8'];

    function generate(){

        let wr = document.getElementById("a");

        let em = a[Math.floor(Math.random()*a.length)];

        wr.innerHTML=em;

    }

</script></head>

<body>

    <div class="a">

        <p class="b">RANDOM EMOJI GENERATOR</p>

        <button class="d" onclick="generate()">Generate</button>

        <p class="e" id = "a"></p>

    </div>

</body></html>

```

OUTPUT :

