NAAC NAAC	Marwadi University	
Marwadi University	Faculty of Technology	
Marwadi Chandarana Group	Department of Information and Communication Technology	
Subject: Internet and Web Technology (01CT0408)	Aim: Design and Implement Tic-Tac-Toe game using HTML, CSS and JavaScript.	
Experiment No:- 09	Date:- 06-04-2024	Enrollment No:- 92200133030

Objective: Design and Implement Tic-Tac-Toe game using HTML, CSS and JavaScript.

HTML Code :-

```
<!DOCTYPE html>
<html lang="en">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <head>
    <title>Tic Tac Toe</title>
    </l></l></l></l></l></l
    <link rel="stylesheet" href="./style.css">
  </head>
  <body>
    <div class="wrapper">
      <div class="container">
         <button class="button-option"></button>
         <button class="button-option"></button>
      </div>
      <button id="restart">Restart</button>
    </div>
    <div class="popup hide">
      <button id="new-game">New Game</button>
      <script src="./script.js"></script>
  </body>
</html>
CSS Code:-
  padding: 0;
  margin: 0;
  box-sizing: border-box;
  font-family: "Raleway", sans-serif;
body {
  height: 100vh;
  background: linear-gradient(135deg, #8052ec, #d161ff);
html {
```

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```
font-size: 16px;
.wrapper {
  position: absolute;
  transform: translate(-50%, -50%);
  top: 50%;
  left: 50%;
.container {
  width: 70vmin;
  height: 70vmin;
  display: flex;
  flex-wrap: wrap;
  gap: 2vmin;
.button-option {
  background: #ffffff;
  height: 22vmin;
  width: 22vmin;
  border: none:
  border-radius: 8px;
  font-size: 12vmin;
  color: #d161ff;
  box-shadow: 0 0 15px rgba(0, 0, 0, 0.1);
#restart {
  font-size: 1.3em;
  padding: 1em;
  border-radius: 8px;
  background-color: #0a0027;
  color: #ffffff;
  border: none;
  position: relative;
  margin: 1.5em auto 0 auto;
  display: block;
}
  background: linear-gradient(135deg, #8052ec, #d161ff);
  height: 100%;
  width: 100%;
  position: absolute;
  display: flex;
  z-index: 2;
  align-items: center;
  justify-content: center;
  flex-direction: column;
```

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```
gap: 1em;
font-size: 12vmin;
}

#new-game {
font-size: 0.6em;
padding: 0.5em 1em;
background-color: #0a0027;
color: #ffffff;
border-radius: 0.2em;
border: none;
}

#message {
color: #ffffff;
text-align: center;
font-size: 1em;
}

.popup.hide {
display: none;
}
```

JavaScript Code:-

```
let btnRef = document.querySelectorAll(".button-option");
let popupRef = document.querySelector(".popup");
let newgameBtn = document.getElementById("new-game");
let restartBtn = document.getElementById("restart");
let msgRef = document.getElementById("message");
let winningPattern = [[0, 1, 2],[0, 3, 6],[2, 5, 8],[6, 7, 8],[3, 4, 5],[1, 4, 7],[0, 4, 8],[2, 4, 6],];
let xTurn = true;
let count = 0;
const disableButtons = () \Rightarrow \{
 btnRef.forEach((element) => (element.disabled = true));
 popupRef.classList.remove("hide");
};
const enableButtons = () => {
 btnRef.forEach((element) => {
  element.innerText = "";
  element.disabled = false;
 popupRef.classList.add("hide");
};
const winFunction = (letter) => {
 disableButtons();
```

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Student Roll No:-92200133030





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```
if (letter == "X") {
  msgRef.innerHTML = "🎉 <br/> 'X' Wins";
  msgRef.innerHTML = "🎉 <br> 'O' Wins";
};
const drawFunction = () => {
 disableButtons();
 msgRef.innerHTML = "😎 <br > It's a Draw";
newgameBtn.addEventListener("click", () => {
 count = 0;
 enableButtons();
});
restartBtn.addEventListener("click", () => {
 count = 0;
 enableButtons();
});
const winChecker = () => {
 for (let i of winningPattern) {
  let [element1, element2, element3] = [
   btnRef[i[0]].innerText,
   btnRef[i[1]].innerText,
   btnRef[i[2]].innerText,
  if (element1 != "" && (element2 != "") & (element3 != "")) {
   if (element1 == element2 && element2 == element3) {
    winFunction(element1);
 }
};
btnRef.forEach((element) => {
 element.addEventListener("click", () => {
  if (xTurn) {
   xTurn = false:
   element.innerText = "X";
   element.disabled = true;
  } else {
   xTurn = true;
   element.innerText = "O";
   element.disabled = true;
  count += 1;
  if (count == 9) {
   drawFunction();
```

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```
winChecker();
});
});
```

window.onload = enableButtons;

Output :-

