```
<html>
<head>
 <title>Tic Tac Toe Game</title>
 <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <!-- when the page loads the its going to call the function start the game -->
<body onload="startGame();">
   <h1>Tic Tac Toe</h1>
  <!-- all the messages are getting the id -->
  <div id="message">messages will go here</div>
 <!-- Centering the table row -->
  <!-- oncick does a certain action when it is clicked on, in this case it activates the
nextMove function -->
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  <!-- oncick does a certain action when it is clicked on, in this case it activates the
nextMove function -->
    <!-- Creating the button to start over, making it a link by using href -->
  <a href="javascript:startGame();"><button class="button">Start Over</button></a>
 </body>
 <style>
```

```
/*Styling the class square */
    .Square {
      width: 150px;
      height: 150px;
      text-align: center;
      font-size: 20pt;
      font-weight: bold;
      font-family: Verdana;
    }
    /*Styling the body */
    body{
      font-size: 20px;
      text-transform: uppercase;
      font-weight: bold;
      text-align: center;
      /* adding a background image to the body */
      background-image: url("https://www.clipartsgram.com/image/1732069297-in-blue-
only-yet-there-really-are-changes-you-won-t-ever-be-bored-in-vision-hd-single-color-
wallpaper1.jpg");
    }
    table{
      background-color: lightgreen
    #message{
      text-align: center;
      font-size: 20px;
      font-weight: bold;
    }
    .button{
      background-color: yellow;
      color: black;
      padding: 23px 32px;
      text-align: center;
      text-transform: uppercase;
      display: inline-block;
      font-size: 20px;
      margin: 10px 5px;
      cursor: pointer;
      /* Curving the edges of the button */
      border-radius: 80px;
  </style>
```

```
<script>
    //Starting game function
    function startGame() {
      //When starting resets the board when it less than or equal to 9
      for (var i = 1; i \le 9; i++) {
         clearBox(i);
      //variable is X and X goes first
      document.turn = "X";
      document.winner = null;
      //Message saying X gets to start
      setMessage(document.turn + " gets to start.");
    }
    function setMessage(msg) {
      //getting elements by ID message and set what ever is on msg
      document.getElementById("message").innerText = msg;
    }
    function nextMove(square) {
      //if the winner is not equal to null outputs the message showing who won the game
      if (document.winner != null) {
           setMessage(document.winner + " already won the game.");
      //this else if checks if the square is empty if it is lets the user click and turn it if not gives
a message saying the square is already being used
      } else if (square.innerText == "") {
           square.innerText = document.turn;
           //calling the switch turn function
           switchTurn();
      //the message saying the sqaure is already being used
      } else {
           setMessage("That square is already being used.");
      }
    }
    //this function switches the turns eg:- from player X to player O
    function switchTurn() {
      //if we have a winner we output the messege
      if (checkForWinner(document.turn)) {
           setMessage("Congratulations, " + document.turn + "! You win!");
           document.winner = document.turn;
      } else if (document.turn == "X") {
           document.turn = "O";
           setMessage("It's " + document.turn + "'s turn!");
```

```
} else {
           document.turn = "X";
           //message showing who's turn is next
           setMessage("It's " + document.turn + "'s turn!");
      }
    }
    function checkForWinner(move) {
      var result = false;
      //win combinations
      if (checkRow(1, 2, 3, move) | |
        checkRow(4, 5, 6, move) ||
        checkRow(7, 8, 9, move) ||
        checkRow(1, 4, 7, move) | |
        checkRow(2, 5, 8, move) ||
        checkRow(3, 6, 9, move) | |
        checkRow(1, 5, 9, move) | |
        checkRow(3, 5, 7, move)) {
        result = true;
      return result;
   }
   //this function checks if all the items in the 3 square are the same
    function checkRow(a, b, c, move) {
      var result = false;
      //if whats is in box a, b and c are all same then the result is true
      if (getBox(a) == move \&\& getBox(b) == move \&\& getBox(c) == move) {
           result = true;
      return result;
    //this function is going to give you the item based on the number
    function getBox(number) {
      return document.getElementById("s" + number).innerText;
    }
    //Clearing the box by getting the box location by ID and then replacing the text with a blank
    function clearBox(number) {
        document.getElementById("s" + number).innerText = "";
    }
   </script>
  </head>
</html>
```

Citations:

How onclick event works – http://www.w3schools.com/jsref/event_onclick.asp

Concept - https://slate.sheridancollege.ca/d2l/le/content/352284/viewContent/5307570/View

getElementID – Week 2 Summary Handout

inner Text-http://stackover flow.com/questions/19030742/difference-between-inner text-and-inner thml-in-javascript