

Assignment – 1

Chess board:

```
<!DOCTYPE html>
<html>
  <head>
    <title>**Chess Board**</title>
    <meta charset="UTF-8">
    <style>
      * {
        margin: 0;
        padding: 0;
      }
      table {
        width: 500px;
        height: 500px;
        margin: auto;
      }
      table td {
        border: 1px solid;
      }
      .dark {
        background-color: black;
        width: 50px;
      }
      .white {
        background-color: white;
        width: 50px;
      }
    </style>
  </head>
  <body>
    <table>
      <tbody>
        <tr>
          <th></th>
          <th>a</th>
          <th>b</th>
          <th>c</th>
          <th>d</th>
          <th>e</th>
          <th>f</th>
          <th>g</th>
          <th>h</th>
        </tr>

        <tr>
          <th>1</th>
          <td class="light"></td>
          <td class="dark"></td>
          <td class="light"></td>
```

```

        <td class="dark"></td>
        <td class="light"></td>
        <td class="dark"></td>
        <td class="light"></td>
        <td class="dark"></td>
    </tr>
    <tr>
        <th>2</th>
        <td class="dark"></td>
        <td class="light"></td>
        <td class="dark"></td>
        <td class="light"></td>
        <td class="dark"></td>
        <td class="light"></td>
        <td class="dark"></td>
        <td class="light"></td>
    </tr>
    <tr>
        <th>3</th>
        <td class="light"></td>
        <td class="dark"></td>
        <td class="light"></td>
        <td class="dark"></td>
        <td class="light"></td>
        <td class="dark"></td>
        <td class="light"></td>
        <td class="dark"></td>
    </tr>
    <tr>
        <th>4</th>
        <td class="dark"></td>
        <td class="light"></td>
        <td class="dark"></td>
        <td class="light"></td>
        <td class="dark"></td>
        <td class="light"></td>
        <td class="dark"></td>
        <td class="light"></td>
    </tr>

```

```

    <tr>
        <th>5</th>
        <td class="light"></td>
        <td class="dark"></td>
        <td class="light"></td>
        <td class="dark"></td>
        <td class="light"></td>
        <td class="dark"></td>
        <td class="light"></td>
        <td class="dark"></td>
    </tr>

```

```

</tr>
<tr>
  <th>6</th>
  <td class="dark"></td>
  <td class="light"></td>
  <td class="dark"></td>
  <td class="light"></td>
  <td class="dark"></td>
  <td class="light"></td>
  <td class="dark"></td>
  <td class="light"></td>
</tr>
<tr>
  <th>7</th>
  <td class="light"></td>
  <td class="dark"></td>
  <td class="light"></td>
  <td class="dark"></td>
  <td class="light"></td>
  <td class="dark"></td>
  <td class="light"></td>
  <td class="dark"></td>
</tr>
<tr>
  <th>8</th>
  <td class="dark"></td>
  <td class="light"></td>
  <td class="dark"></td>
  <td class="light"></td>
  <td class="dark"></td>
  <td class="light"></td>
  <td class="dark"></td>
  <td class="light"></td>
</tr>
</tbody>
</table>
</body>
</html>

```

	a	b	c	d	e	f	g	h
1								
2								
3								
4								
5								
6								
7								
8								

VIBGYOR :

```

<!DOCTYPE html>
<html>
  <head>
    <title>**VIBGYOR**</title>
    <meta charset="UTF-8">
    <style>
      * {
        margin: 0;
        padding: 0;
        padding-top: 20px;
      }
    </style>
  </head>
  <body>
    <table>

```

```

        width: 500px;
        height: 500px;
        margin: auto;
    }
    .Violet {
        background-color: #9400D3;
    }
    .Indigo {
        background-color: #4B0082;
    }
    .Blue {
        background-color: #0000FF;
    }
    .Green {
        background-color: #00FF00;
    }
    .Yellow {
        background-color: #FFFF00;
    }
    .Orange {
        background-color: #FF7F00;
    }
    .Red {
        background-color: #FF0000;
    }
</style>
</head>
<body>
<table>
<tbody>
<tr>
    <td class="Violet"></td>
    <td class="light"></td>
    <td class="light"></td>
    <td class="light"></td>
    <td class="light"></td>
    <td class="light"></td>
    <td class="light"></td>
</tr>
<tr>
    <td class="light"></td>
    <td class="Indigo"></td>
    <td class="light"></td>
    <td class="light"></td>
    <td class="light"></td>
    <td class="light"></td>
    <td class="light"></td>
</tr>
<tr>
    <td class="light"></td>
    <td class="light"></td>

```


TIC-TAC-TOE:

```
<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">
  <link rel="stylesheet" href="style.css">
  <link rel="preconnect" href="https://fonts.gstatic.com">
  <link href="https://fonts.googleapis.com/css2?family=Itim&display=swap" rel="stylesheet">
  <script src="./index.js"></script>
  <title>Tic-Tac-Toe</title>
</style>
* {
  padding: 0;
  margin: 0;
  font-family: 'Itim';
}

.title {
  color: black;
  text-align: center;
  font-size: 40px;
  margin-top: 2%;
}

.display {
  color: black;
  font-size: 25px;
  text-align: center;
  margin-top: 1em;
  margin-bottom: 1em;
}

.hide {
  display: none;
}

.container {
  margin: 0 auto;
  display: grid;
  grid-template-columns: 33% 33% 33%;
  grid-template-rows: 33% 33% 33%;
  max-width: 300px;
}

.tile {
  border: 1px solid black;
  min-width: 100px;
```

```

    min-height: 100px;
    display: flex;
    justify-content: center;
    align-items: center;
    font-size: 50px;
    cursor: pointer;
}

.playerX {
    color: #09C372;
}

.playerO {
    color: #498AFB;
}

.controls {
    display: flex;
    flex-direction: row;
    justify-content: center;
    align-items: center;
    margin-top: 1em;
}

.controls button {
    color: white;
    padding: 8px;
    border-radius: 8px;
    border: none;
    font-size: 20px;
    margin-left: 1em;
    cursor: pointer;
}

.restart {
    background-color: #498AFB;
}

#reset {
    background-color: #FF3860;
}
</style>
</head>
<body>
    <main class="background">
        <section class="title">
            <h1>Tic Tac Toe</h1>
        </section>
        <section class="display">
            Player <span class="display-player playerX">X</span>'s turn
        </section>

```

```

<section class="container">
  <div class="tile"></div>
  <div class="tile"></div>
  <div class="tile"></div>
  <div class="tile"></div>
  <div class="tile"></div>
  <div class="tile"></div>
  <div class="tile"></div>
  <div class="tile"></div>
  <div class="tile"></div>
</section>
<section class="display announcer hide"></section>
<section class="controls">
  <button id="reset">Reset</button>
</section>
</main>
</body>
</html>

```

```

window.addEventListener('DOMContentLoaded', () => {
  const tiles = Array.from(document.querySelectorAll('.tile'));
  const playerDisplay = document.querySelector('.display-player');
  const resetButton = document.querySelector('#reset');
  const announcer = document.querySelector('.announcer');

```

```

  let board = ["", "", "", "", "", "", "", ""];
  let currentPlayer = 'X';
  let isGameActive = true;

```

```

  const PLAYERX_WON = 'PLAYERX_WON';
  const PLAYERO_WON = 'PLAYERO_WON';
  const TIE = 'TIE';
  const winningConditions = [

```

```

    [0, 1, 2],
    [3, 4, 5],
    [6, 7, 8],
    [0, 3, 6],
    [1, 4, 7],
    [2, 5, 8],
    [0, 4, 8],
    [2, 4, 6]

```

```

  ];
  function handleResultValidation() {
    let roundWon = false;
    for (let i = 0; i <= 7; i++) {
      const winCondition = winningConditions[i];
      const a = board[winCondition[0]];
      const b = board[winCondition[1]];
      const c = board[winCondition[2]];
      if (a === "" || b === "" || c === "") {

```



```

        continue;
    }
    if (a === b && b === c) {
        roundWon = true;
        break;
    }
}
if (roundWon) {
    announce(currentPlayer === 'X' ? PLAYERX_WON : PLAYERO_WON);
    isGameActive = false;
    return;
}
if (!board.includes(""))
    announce(TIE);
}
const announce = (type) => {
    switch(type){
        case PLAYERO_WON:
            announcer.innerHTML = 'Player <span class="playerO">O</span> Won';
            break;
        case PLAYERX_WON:
            announcer.innerHTML = 'Player <span class="playerX">X</span> Won';
            break;
        case TIE:
            announcer.innerText = 'Tie';
    }
    announcer.classList.remove('hide');
};

const isValidAction = (tile) => {
    if (tile.innerText === 'X' || tile.innerText === 'O'){
        return false;
    }

    return true;
};

const updateBoard = (index) => {
    board[index] = currentPlayer;
}

const changePlayer = () => {
    playerDisplay.classList.remove(`player${currentPlayer}`);
    currentPlayer = currentPlayer === 'X' ? 'O' : 'X';
    playerDisplay.innerText = currentPlayer;
    playerDisplay.classList.add(`player${currentPlayer}`);
}

const userAction = (tile, index) => {
    if(isValidAction(tile) && isGameActive) {
        tile.innerText = currentPlayer;
    }
}

```

```

        tile.classList.add(`player${currentPlayer}`);
        updateBoard(index);
        handleResultValidation();
        changePlayer();
    }
}

const resetBoard = () => {
    board = ["", "", "", "", "", "", "", ""];
    isGameActive = true;
    announcer.classList.add('hide');

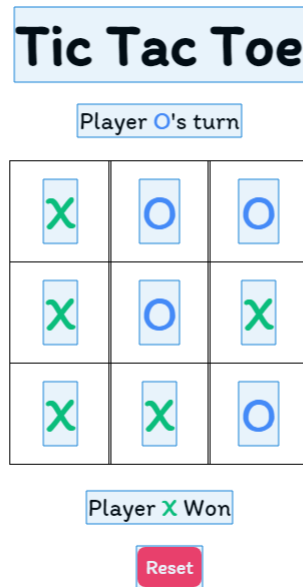
    if (currentPlayer === 'O') {
        changePlayer();
    }

    tiles.forEach(tile => {
        tile.innerText = "";
        tile.classList.remove('playerX');
        tile.classList.remove('playerO');
    });
}

tiles.forEach( (tile, index) => {
    tile.addEventListener('click', () => userAction(tile, index));
});

resetButton.addEventListener('click', resetBoard);
});

```



TIME TABLE:

```

<html>
<head>
    <title>time table</title>
</head>
<body bgcolor=#FFE5B4>
    <H1><FONT COLOR=#A020F0><CENTER>COLLEGE TIME TABLE</FONT></H1>
    <table border="5" cellspacing="20" align="center">
        <tr>
            <td align="center">
                <td>09:00-09:50</td>
                <td>09:50-10:40</td>
                <td>10:40-11:00</td>
                <td>11:00-11:50</td>
                <td>11:50-12:40</td>
                <td>12:40-01:20</td>
                <td>01:20-02:10</td>
                <td>02:10-03:00</td>
                <td>03:00-03:50</td>
            </td>
        </tr>
        <tr>
            <td>MONDAY</td>
            <td>HCI</td>
            <td>CC</td>
            <td>SCM</td>
            <td>CNS</td>
            <td>NALAIYA THIRAN</td>
        </td>
        <tr>
            <td>TUESDAY</td>
            <td>POM</td>
            <td>HCI</td>
            <td>SCM</td>
            <td>HCI</td>
            <td>CC SEC LAB</td>
        </td>
        <tr>
            <td>WEDNESDAY</td>
            <td>CNS</td>
            <td>CC</td>
            <td>CNS</td>
            <td>CC</td>
            <td>POM</td>
            <td>HCI</td>
            <td>POM</td>
        </td>
        <tr>
            <td>THURSDAY</td>
            <td>HCI</td>
            <td>SCM</td>
            <td>CC</td>
            <td>LIBRARY</td>
            <td>NALAIYA THIRAN</td>
        </td>
        <tr>
            <td>FRIDAY</td>
            <td>CC</td>
            <td>CC SEC LAB</td>
            <td>CC SEC LAB</td>
            <td>POM</td>
            <td>SCM</td>
            <td>CNS</td>
        </td>
    </table>

```

COLLEGE TIME TABLE						
	09:00-09:50	09:50-10:40	10:40-11:00	11:00-11:50	11:50-12:40	12:40-01:20
MONDAY	HCI	CC	SCM	CNS	NALAIYA THIRAN	
TUESDAY	POM	HCI	SCM	HCI	CC SEC LAB	
WEDNESDAY	CNS	CC	CNS	CC	POM	HCI
THURSDAY	HCI	SCM	CC	LIBRARY	NALAIYA THIRAN	
FRIDAY	CC	CC SEC LAB	CC SEC LAB	POM	SCM	CNS


```
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <meta http-equiv="X-UA-Compatible" content="ie=edge" />
    <title>REGISTER</title>

    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css" integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous" />
    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.2/css/all.css"
integrity="sha384-fnmOCqbTIWIlj8LyTjo7mOUStjsKC4pOpQbqyi7RhN7udi9RwhKkMHpvLbHG9Sr"
crossorigin="anonymous">
    <script defer src="register.js"></script>
    <link rel="stylesheet" href="registration.css"/>
</head>
<body>
    <header>
        <div class="container-fluid p-0">
            <nav class="navbar navbar-expand-lg">
                <a class="navbar-brand" href="#">
                    <i class="fas fa-address-card"></i> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~
REGISTRATION PAGE WITH HTML, CSS, AND JS</a>
                <button class="navbar-toggler" type="button" data-toggle="collapse"
data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false"
aria-label="Toggle navigation">
                    <i class="fas fa-indent text-light"></i>
                </button>
            </nav>
        </div>
        <div class="container text-center">
            <div class="row">
                <div class="col-md-7 col-sm-12 text-white">
                    <form id="form" action="/">

                        <label>User Name</label>
                        <input type="text" name="username" id="username">
                        <div class="error"></div>
                        <label>Email</label>
                        <input type="text" name="email" id="email">
                        <div class="error"></div>
                        <label>Password</label>
                        <input type="text" name="password" id="password">
                        <div class="error"></div>
                        <button type="submit" onclick="alert('You have registered
successfully')">register</button>

                    </form>
```

```

        </div>
        <div class="col-md-5 col-sm-12 h-25">
            
        </div>
    </div>
</div>
</header>
</body>
</html>

```

```

const form = document.getElementById('form');
const username = document.getElementById('username');
const email = document.getElementById('email');
const password = document.getElementById('password');

```

```

form.addEventListener('submit', e => {
    e.preventDefault();

```

```

    validateInputs();
});

```

```

const setError = (element, message) => {
    const inputControl = element.parentElement;
    const errorDisplay = inputControl.querySelector('.error');

    errorDisplay.innerText = message;
    inputControl.classList.add('error');
    inputControl.classList.remove('success')
}

```

```

const setSuccess = element => {
    const inputControl = element.parentElement;
    const errorDisplay = inputControl.querySelector('.error');

    errorDisplay.innerText = '';
    inputControl.classList.add('success');
    inputControl.classList.remove('error');
};

```

```

const isValidEmail = email => {
    const re = /^(^<>()[]\.\,\:\s@"'+)+(\.^[^<>()[]\.\,\:\s@"'+)*)(\.+"))@((\[[0-9]{1,3}\. [0-9]{1,3}\. [0-9]{1,3}\. [0-9]{1,3}\]|(\[[a-zA-Z-0-9]+\.\.]+[a-zA-Z]{2,}))$ /;
    return re.test(String(email).toLowerCase());
}

```

```

const validateInputs = () => {
    const usernameValue = username.value.trim();
    const emailValue = email.value.trim();
    const passwordValue = password.value.trim();

```

```

if(usernameValue === "") {
    setError(username, 'Username is required');
} else {
    setSuccess(username);
}

if(emailValue === "") {
    setError(email, 'Email is required');
} else if (!isValidEmail(emailValue)) {
    setError(email, 'Provide a valid email address');
} else {
    setSuccess(email);
}

if(passwordValue === "") {
    setError(password, 'Password is required');
} else if (passwordValue.length < 6 ) {
    setError(password, 'Password must be at least 6 character.')
} else {
    setSuccess(password);
}

};

@import url("https://fonts.googleapis.com/css?family=Acme|Lobster|Patua+One|Rubik|Sniglet");
@import url('https://fonts.googleapis.com/css2?family=Tiro+Bangla:ital@1&display=swap');
* {
    box-sizing: border-box;
}

header {
    overflow-x: hidden;
}

:root {
    --Sniglet-font: "Sniglet", cursive;
    --Rubik: "Rubik", cursive;
    --bggradient: linear-gradient(to bottom, #FF6DA4, #1DC28B);
}

header a {
    font-family: var(--Sniglet-font);
    font-size: 6rem;
    color: whitesmoke;
}

header .navbar-brand {
    padding-left: 8rem;
}

```

```
header .navbar-brand:hover{
  color: black;
}
```

```
header .row .col-md-7 {
  padding: 25vmin 1vmin;
  padding-bottom: 128px;
}
```

```
header .row .col-md-5 {
  padding: 4.2vmin 1vmin;
}
```

```
header .row .col-md-5 img {
  width: 90%;
}
```

```
header {
  background: #C21D54;
  /* fallback for old browsers */
  background: var(--bggradient);
}
```

```
header .container .col-md-7 {
  font-family: "Rubik", sans-serif;
}
```

```
form{
  width: 30rem;
  height: 18rem;
  display: flex;
  flex-direction: column;
  background: rgba(255,255,255,0.06);
  box-shadow: 0 8px 32px 0 rgba(31,38,135,0.37);
  border-radius: 30px;
  border-left: 1px solid rgba(255,255,255,.3);
  border-top: 1px solid rgba(255,255,255,.3);
}
```

```
form:before{
  content: "";
  position: absolute;
  top: 2%;
  right: 50%;
  width: 50px;
  height: 50px;
  background: #728FCE;
  border-radius: 20%;
  z-index: -1;
  opacity: .8;
```

```

}

label{
  font-size: 20px;
  color: black;
  text-shadow: 2px 2px 4px rgba(0,0,0,.2);
}

input{
  width: 90%;
  margin: 2% auto;
  margin-bottom: 4%;
  border: none;
  outline: none;
  background: transparent;
  color: #000000;
  border-bottom: 1px solid rgb(0,0,0);
}

button{
  width: 50%;
  margin: 3% auto;
  color: black;
  font-size: 15px;
  opacity: .9;
  background: rgba(255,255,255,0.06);
  padding: 10px 30px;
  outline: none;
  border-radius: 20px;
  text-shadow: 2px 2px 4px rgb(0,0,0);
  box-shadow: rgba(31,38,135,.37);
}

```

