

2a) Chessboard.html

```
<html>
<head>
<meta charset="UTF-8">
<title>Chessboard using Pure CSS and HTML</title>
<style type="text/css">

.chessboard {
  width: 640px;
  height: 640px;
  margin: 20px;
  border: 25px solid #333;
}
.black {
  float: left;
  width: 80px;
  height: 80px;
  background-color: #999;
  font-size: 50px;
  text-align: center;
  display: table-cell;
  vertical-align: middle;
}
.white {
  float: left;
  width: 80px;
  height: 80px;
  background-color: #fff;
  font-size: 50px;
  text-align: center;
  display: table-cell;
  vertical-align: middle;
}

</style>
</head>
<body>

<div class="chessboard">
<!-- 1st -->
<div class="white">&#9820;</div>
<div class="black">&#9822;</div>
<div class="white">&#9821;</div>
<div class="black">&#9819;</div>
<div class="white">&#9818;</div>
<div class="black">&#9821;</div>
<div class="white">&#9822;</div>
<div class="black">&#9820;</div>
<!-- 2nd -->
<div class="black">&#9821;</div>
<div class="white">&#9821;</div>
<div class="black">&#9821;</div>
<div class="white">&#9821;</div>
<div class="black">&#9821;</div>
<div class="white">&#9821;</div>
<div class="black">&#9821;</div>
<div class="white">&#9821;</div>
</div>
```

[illegible]

2b)VIBGYOR

```
<html>
<head>
<meta charset="UTF-8">
<title>Chessboard using Pure CSS and HTML</title>
<style type="text/css">
```

```
.rainbow-lr {
  background: linear-gradient(to right, red, orange , yellow, green, cyan, blue, violet);
  color:transparent;
  background-clip: text;
}
.rainbow-td {
  background: linear-gradient(to bottom, red, orange , yellow, green, cyan, blue, violet);
  color:transparent;
  background-clip: text;
}
</style>
</head>
<body>
```

```
<div>
  <span class="rainbow-lr">Rainbow text</span>
</div>
<div>
  <span class="rainbow-td">Rainbow text</span>
</div>

</body>
</html>
```



2c) TIC-TAC-TOE

```
<!doctype html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport"
    content="width=device-width, user-scalable=no, initial-scale=1.0, maximum-scale=1.0, minimum-
scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>Tic Tac Toe</title>
  <style>
body {
  font-family: "Arial", sans-serif;
}

section {
  text-align: center;
}

.game--title {
  font-size: 100px;
  color: #d7a62f;
  margin: 10px auto;
}

.game--container {
  display: grid;
  grid-template-columns: repeat(3, auto);
  width: 306px;
  margin: 10px auto;
  background-color: #11213a;
  color: #04c0b2;
}

.cell {
  font-family: "Permanent Marker", cursive;
  width: 100px;
  height: 100px;
  box-shadow: 2px 2px 2px 2px #ecd7ba;
  border: 2px solid #ecd7ba;
  cursor: pointer;
  line-height: 100px;
  font-size: 60px;
}

.game--status {
  font-size: 50px;
  color: #d7a62f;
  margin: 20px auto;
}

.game--restart {
  background-color: #f7e4ac;
  width: 200px;
  height: 50px;
  font-size: 25px;
  color: #5586e2;
```

```

    box-shadow: 2px 2px 2px 2px #d86c23;
    border: 2px solid #d86c23;
}

</style>
</head>
<body>
  <section>
    <h1 class="game--title">Tic Tac Toe</h1>
    <div class="game--container">
      <div data-cell-index="0" class="cell"></div>
      <div data-cell-index="1" class="cell"></div>
      <div data-cell-index="2" class="cell"></div>
      <div data-cell-index="3" class="cell"></div>
      <div data-cell-index="4" class="cell"></div>
      <div data-cell-index="5" class="cell"></div>
      <div data-cell-index="6" class="cell"></div>
      <div data-cell-index="7" class="cell"></div>
      <div data-cell-index="8" class="cell"></div>
    </div>
    <h2 class="game--status"></h2>
    <button class="game--restart">Restart Game</button>
  </section>

  <script>
const statusDisplay = document.querySelector('.game--status');

let gameActive = true;
let currentPlayer = "X";
let gameState = ["", "", "", "", "", "", "", "", ""];

const winningMessage = () => `Player ${currentPlayer} has won!`;
const drawMessage = () => `Game ended in a draw!`;
const currentPlayerTurn = () => `It's ${currentPlayer}'s turn`;

statusDisplay.innerHTML = currentPlayerTurn();

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 handleCellPlayed(clickedCell, clickedCellIndex) {
  gameState[clickedCellIndex] = currentPlayer;
  clickedCell.innerHTML = currentPlayer;
}

function handlePlayerChange() {
  currentPlayer = currentPlayer === "X" ? "O" : "X";
  statusDisplay.innerHTML = currentPlayerTurn();
}

function handleResultValidation() {

```

```

let roundWon = false;
for (let i = 0; i <= 7; i++) {
  const winCondition = winningConditions[i];
  let a = gameState[winCondition[0]];
  let b = gameState[winCondition[1]];
  let c = gameState[winCondition[2]];
  if (a === " " || b === " " || c === " ") {
    continue;
  }
  if (a === b && b === c) {
    roundWon = true;
    break
  }
}

if (roundWon) {
  statusDisplay.innerHTML = winningMessage();
  gameActive = false;
  return;
}

let roundDraw = !gameState.includes("");
if (roundDraw) {
  statusDisplay.innerHTML = drawMessage();
  gameActive = false;
  return;
}

handlePlayerChange();
}

function handleClick(clickedCellEvent) {
  const clickedCell = clickedCellEvent.target;
  const clickedCellIndex = parseInt(clickedCell.getAttribute('data-cell-index'));

  if (gameState[clickedCellIndex] !== "" || !gameActive) {
    return;
  }

  handleCellPlayed(clickedCell, clickedCellIndex);
  handleResultValidation();
}

function handleRestartGame() {
  gameActive = true;
  currentPlayer = "X";
  gameState = ["", "", "", "", "", "", "", "", ""];
  statusDisplay.innerHTML = currentPlayerTurn();
  document.querySelectorAll('.cell').forEach(cell => cell.innerHTML = "");
}

document.querySelectorAll('.cell').forEach(cell => cell.addEventListener('click', handleClick));
document.querySelector('.game--restart').addEventListener('click', handleRestartGame);</script>
</body>
</html>

```

Tic Tac Toe

O	X	X
X	O	O
X	O	X

Game ended in a draw!

[Restart Game](#)

3. Timetable using Table tag in HTML

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>TimeTable</title>
```

```
</head>
```

```
<body>
```

```
<!--TimeTable using HTML codes by Bob TekZone-->
```

```
<table border="3px" cellspacing="5px" cellpadding="10px">
```

```
<caption>Time-Table</caption>
```

```
<tr>
```

```
<th colspan="6">
```

```
<pre>
```

Sec:A

```
</pre></th>
```

```
<!--<pre> tag used for writing the content same as in codes without any changes-->
```

```
</tr>
```

```
<tr>
```

```
<th>Day/Time</th>
```

<th>1st Period 09:00-10:00am</th>

<th>2nd Period 10:00-11:00am</th>

<th>Break 11:00-11:30am</th>

<!--<td></td> & <th></th> both used for column, <th></th> is a table header -->

<th>3rd Period 11:30am-12:30pm</th>

<th>4th Period 12:30-01:30pm</th>

</tr>

<tr>

<td>Monday</td>

<td>WD</td>

<td>Automata</td>

<td rowspan="6"><center>B
R
E
A
K
</center></td>

<td>Python</td>

<td>OS</td>

</tr>

<tr>

<td>Tuesday</td>

<td>Math</td>

<td>WD</td>

<td>Python</td>

<td>Automata</td>

</tr>

<tr>

<td>Wednesday</td>

<td>Quants</td>

<td>HV</td>

<td>English</td>

<td>WD</td>

</tr>

<tr>

<td>Thursday</td>

<td>Automata</td>

<td>Math</td>

<td>WD</td>

<td>OS</td>

</tr>

<tr>

<td>Friday</td>

<td>OS</td>

<td>Python</td>

<td>Automata</td>


```
<td>WD</td>
</tr>
<tr>
<td>Saturday</td>
<td>PSD</td>
<td>OS</td>
<td>Reasoning</td>
<td>HV</td>
</tr>
</table>
</body>
<html>
```

Time-Table

Sec : A					
Day/Time	1st Period 09:00-10:00am	2nd Period 10:00-11:00am	Break 11:00-11:30am	3rd Period 11:30am-12:30pm	4th Period 12:30-01:30pm
Monday	WD	Automata	B R E A K	Python	OS
Tuesday	Math	WD		Python	Automata
Wednesday	Quants	HV		English	WD
Thursday	Automata	Math		WD	OS
Friday	OS	Python		Automata	WD
Saturday	PSD	OS		Reasoning	HV

4. Registration Form

```
<!DOCTYPE html>
<html>
  <head>
    <title>Login and Registration Form in HTML</title>
  </head>
  <body>
    <div class="wrapper">
      <div class="title-text">
        <div class="title login">
          Login Form
        </div>
        <div class="title Register">
          Registration Form
        </div>
      </div>
      <div class="form-container">
        <div class="slide-controls">
          <input type="radio" name="slide" id="login" checked>
          <input type="radio" name="slide" id="register">
          <label for="login" class="slide login">Login</label>
          <label for="Register" class="slide signup">Register </label>
          <div class="slider-tab"></div>
        </div>
        <div class="form-inner">
          <form action="#" class="login">
            <div class="field">
              <input type="text" placeholder="Email Address" required>
            </div>
            <div class="field">
              <input type="password" placeholder="Password" required>
            </div>
            <div class="pass-link">
              <a href="#">Forgot password?</a>
            </div>
            <div class="field btn">
              <div class="btn-layer"></div>
              <input type="submit" value="Login">
            </div>
            <div class="Register-link">
              Not registered? <a href="">Register now</a>
            </div>
          </form>
          <form action="#" class="Register">
            <div class="field">
              <input type="text" placeholder="Email Address" required>
            </div>
            <div class="field">
              <input type="password" placeholder="Password" required>
            </div>
            <div class="field">
              <input type="password" placeholder="Confirm password" required>
            </div>
            <div class="field btn">
              <div class="btn-layer"></div>
              <input type="submit" value="Register">
            </div>
          </form>
        </div>
      </div>
    </div>
  </body>
</html>
```

```

        </div>
    </form>
</div>
</div>
</div>
</div>
<script>
    const loginText = document.querySelector(".title-text .login");
    const loginForm = document.querySelector("form.login");
    const loginBtn = document.querySelector("label.login");
    const signupBtn = document.querySelector("label.signup");
    const signupLink = document.querySelector("form .signup-link a");
    signupBtn.onclick = (()=>{
        loginForm.style.marginLeft = "-50%";
        loginText.style.marginLeft = "-50%";
    });
    loginBtn.onclick = (()=>{
        loginForm.style.marginLeft = "0%";
        loginText.style.marginLeft = "0%";
    });
    signupLink.onclick = (()=>{
        signupBtn.click();
        return false;
    });
</script>
<style>
*{
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: 'Poppins', sans-serif;
}
html,body{
    display: grid;
    height: 100%;
    width: 100%;
    place-items: center;
    background: #87CEEB;
}
::selection{
    background: #fa4299;
    color: #fff;
}
.wrapper{
    overflow: hidden;
    max-width: 390px;
    background: #fff;
    padding: 30px;
    border-radius: 5px;
    box-shadow: 0px 15px 20px rgba(0,0,0,0.1);
}
.wrapper .title-text{
    display: flex;
    width: 200%;
}
.wrapper .title{
    width: 50%;
    font-size: 35px;
    font-weight: 600;
    text-align: center;

```

```

    transition: all 0.6s cubic-bezier(0.68,-0.55,0.265,1.55);
}
.wrapper .slide-controls{
    position: relative;
    display: flex;
    height: 50px;
    width: 100%;
    overflow: hidden;
    margin: 30px 0 10px 0;
    justify-content: space-between;
    border: 1px solid lightgrey;
    border-radius: 5px;
}
.slide-controls .slide{
    height: 100%;
    width: 100%;
    color: #fff;
    font-size: 18px;
    font-weight: 500;
    text-align: center;
    line-height: 48px;
    cursor: pointer;
    z-index: 1;
    transition: all 0.6s ease;
}
.slide-controls label.signup{
    color: #000;
}
.slide-controls .slider-tab{
    position: absolute;
    height: 100%;
    width: 50%;
    left: 0;
    z-index: 0;
    border-radius: 5px;
    background: -webkit-linear-gradient(left, #a445b2, #fa4299);
    transition: all 0.6s cubic-bezier(0.68,-0.55,0.265,1.55);
}
input[type="radio"]{
    display: none;
}
#signup:checked ~ .slider-tab{
    left: 50%;
}
#signup:checked ~ label.signup{
    color: #fff;
    cursor: default;
    user-select: none;
}
#signup:checked ~ label.login{
    color: #000;
}
#login:checked ~ label.signup{
    color: #000;
}
#login:checked ~ label.login{
    cursor: default;
    user-select: none;
}

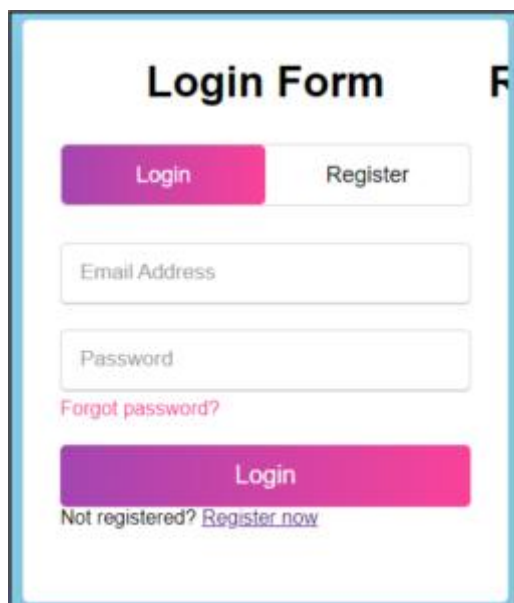
```

```
.wrapper .form-container{
  width: 100%;
  overflow: hidden;
}
.form-container .form-inner{
  display: flex;
  width: 200%;
}
.form-container .form-inner form{
  width: 50%;
  transition: all 0.6s cubic-bezier(0.68,-0.55,0.265,1.55);
}
.form-inner form .field{
  height: 50px;
  width: 100%;
  margin-top: 20px;
}
.form-inner form .field input{
  height: 100%;
  width: 100%;
  outline: none;
  padding-left: 15px;
  border-radius: 5px;
  border: 1px solid lightgrey;
  border-bottom-width: 2px;
  font-size: 17px;
  transition: all 0.3s ease;
}
.form-inner form .field input:focus{
  border-color: #fc83bb;
}
.form-inner form .field input::placeholder{
  color: #999;
  transition: all 0.3s ease;
}
form .field input:focus::placeholder{
  color: #b3b3b3;
}
.form-inner form .pass-link{
  margin-top: 5px;
}
.form-inner form .signup-link{
  text-align: center;
  margin-top: 30px;
}
.form-inner form .pass-link a,
.form-inner form .signup-link a{
  color: #fa4299;
  text-decoration: none;
}
.form-inner form .pass-link a:hover,
.form-inner form .signup-link a:hover{
  text-decoration: underline;
}
form .btn{
  height: 50px;
  width: 100%;
  border-radius: 5px;
  position: relative;
```

```

overflow: hidden;
}
form .btn .btn-layer{
height: 100%;
width: 300%;
position: absolute;
left: -100%;
background: -webkit-linear-gradient(right, #a445b2, #fa4299, #a445b2, #fa4299);
border-radius: 5px;
transition: all 0.4s ease;;
}
form .btn:hover .btn-layer{
left: 0;
}
form .btn input[type="submit"]{
height: 100%;
width: 100%;
z-index: 1;
position: relative;
background: none;
border: none;
color: #fff;
padding-left: 0;
border-radius: 5px;
font-size: 20px;
font-weight: 500;
cursor: pointer;
}
</style>
</body>
</html>

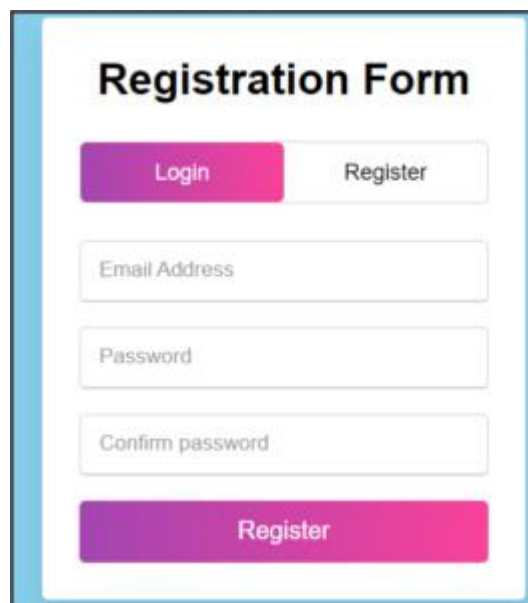
```



Login Form

[Forgot password?](#)

Not registered? [Register now](#)



Registration Form