1.Execute all the program that discussed in today’s session

<!DOCTYPE html>  
<html>  
<head>  
<title>Page Title</title>  
</head>  
<body>  
  
<h1>This is a Heading</h1>  
<p>This is a paragraph.</p>  
<ul>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ul>

<ol>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>  
</body>  
</html>

**2 a.Chessboard**

import turtle

sc = turtle.Screen()

pen = turtle.Turtle()

def draw():

for i in range(4):

pen.forward(30)

pen.left(90)

pen.forward(30)

if \_\_name\_\_ == "\_\_main\_\_" :

sc.setup(600, 600)

pen.speed(100)

for i in range(8):

pen.up()

pen.setpos(0, 30 \* i)

pen.down()

for j in range(8):

if (i + j)% 2 == 0:

col ='black'

else:

col ='white'

pen.fillcolor(col)

pen.begin\_fill()

draw()

pen.end\_fill()

pen.hideturtle()

1. **VIBGYOR:**

import turtle

sc = turtle.Screen()

sc.bgcolor('black')

pen = turtle.Turtle()

pen.width(4)

def circle(col, rad, val):

pen.color(col)

pen.circle(rad)

pen.up()

pen.setpos(0, val)

pen.down()

def text():

pen.color('white')

pen.up()

pen.setpos(-100, 140)

pen.down()

pen.write("Concentric VIBGYOR",font = ("Verdana", 15))

pen.up()

pen.setpos(-82, -188)

pen.down()

pen.write("Using Turtle Graphics",font = ("Verdana", 12))

pen.hideturtle()

if \_\_name\_\_ == "\_\_main\_\_" :

col = ['violet', 'indigo', 'blue',

'green', 'yellow', 'orange',

'red']

for i in range(7):

circle(col[i], -20\*(i+1), 20\*(i+1))

text()

1. **Tic tac toe**

import random

class TicTacToe:

def \_\_init\_\_(self):

self.board = []

def create\_board(self):

for i in range(3):

row = []

for j in range(3):

row.append('-')

self.board.append(row)

def get\_random\_first\_player(self):

return random.randint(0, 1)

def fix\_spot(self, row, col, player):

self.board[row][col] = player

def is\_player\_win(self, player):

win = None

n = len(self.board)

for i in range(n):

win = True

for j in range(n):

if self.board[i][j] != player:

win = False

break

if win:

return win

for i in range(n):

win = True

for j in range(n):

if self.board[j][i] != player:

win = False

break

if win:

return win

win = True

for i in range(n):

if self.board[i][i] != player:

win = False

break

if win:

return win

win = True

for i in range(n):

if self.board[i][n - 1 - i] != player:

win = False

break

if win:

return win

return False

for row in self.board:

for item in row:

if item == '-':

return False

return True

def is\_board\_filled(self):

for row in self.board:

for item in row:

if item == '-':

return False

return True

def swap\_player\_turn(self, player):

return 'X' if player == 'O' else 'O'

def show\_board(self):

for row in self.board:

for item in row:

print(item, end=" ")

print()

def start(self):

self.create\_board()

player = 'X' if self.get\_random\_first\_player() == 1 else 'O'

while True:

print(f"Player {player} turn")

self.show\_board()

row, col = list(

map(int, input("Enter row and column numbers to fix spot: ").split()))

print()

self.fix\_spot(row - 1, col - 1, player)

if self.is\_player\_win(player):

print(f"Player {player} wins the game!")

break

if self.is\_board\_filled():

print("Match Draw!")

break

player = self.swap\_player\_turn(player)

print()

self.show\_board()

tic\_tac\_toe = TicTacToe()

tic\_tac\_toe.start()

3. design a webpage which displays the timetable in html

<!DOCTYPE html>

<html>

<body>

<h1>TIME TABLE</h1>

<table border="5" cellspacing="0" align="center">

<!--<caption>Timetable</caption>-->

<tr>

<td align="center" height="50" width="100"><br>

<b>Day/Period</b></br>

</td>

<td align="center" height="50" width="100">

<b>I<br>9:30-10:20</b>

</td>

<td align="center" height="50" width="100">

<b>II<br>10:20-11:10</b>

</td>

<td align="center" height="50" width="100">

<b>III<br>11:10-12:00</b>

</td>

<td align="center" height="50" width="100">

<b>12:00-12:40</b>

</td>

<td align="center" height="50" width="100">

<b>IV<br>12:40-1:30</b>

</td>

<td align="center" height="50" width="100">

<b>V<br>1:30-2:20</b>

</td>

<td align="center" height="50" width="100">

<b>VI<br>2:20-3:10</b>

</td>

<td align="center" height="50" width="100">

<b>VII<br>3:10-4:00</b>

</td>

</tr>

<tr>

<td align="center" height="50">

<b>Monday</b></td>

<td align="center" height="50">Eng</td>

<td align="center" height="50">Mat</td>

<td align="center" height="50">Che</td>

<td rowspan="6" align="center" height="50">

<h2>L<br>U<br>N<br>C<br>H</h2>

</td>

<td colspan="3" align="center"

height="50">LAB</td>

<td align="center" height="50">Phy</td>

</tr>

<tr>

<td align="center" height="50">

<b>Tuesday</b>

</td>

<td colspan="3" align="center" height="50">LAB

</td>

<td align="center" height="50">Eng</td>

<td align="center" height="50">Che</td>

<td align="center" height="50">Mat</td>

<td align="center" height="50">SPORTS</td>

</tr>

<tr>

<td align="center" height="50">

<b>Wednesday</b>

</td>

<td align="center" height="50">Mat</td>

<td align="center" height="50">phy</td>

<td align="center" height="50">Eng</td>

<td align="center" height="50">Che</td>

<td colspan="3" align="center"

height="50">LIBRARY

</td>

</tr>

<tr>

<td align="center" height="50">

<b>Thursday</b>

</td>

<td align="center" height="50">Phy</td>

<td align="center" height="50">Eng</td>

<td align="center" height="50">Che</td>

<td colspan="3" align="center"

height="50">LAB

</td>

<td align="center" height="50">Mat</td>

</tr>

<tr>

<td align="center" height="50">

<b>Friday</b>

</td>

<td colspan="3" align="center"

height="50">LAB

</td>

<td align="center" height="50">Mat</td>

<td align="center" height="50">Che</td>

<td align="center" height="50">Eng</td>

<td align="center" height="50">Phy</td>

</tr>

<tr>

<td align="center" height="50">

<b>Saturday</b>

</td>

<td align="center" height="50">Eng</td>

<td align="center" height="50">Che</td>

<td align="center" height="50">Mat</td>

<td colspan="3" align="center"

height="50">SEMINAR

</td>

<td align="center" height="50">SPORTS</td>

</tr>

</table>

</body>

</html>

4. Design a registration webpage using HTML, CSS and js

<!DOCTYPE html>

<html lang="en" dir="ltr">

<head>

<meta charset="utf-8">

<title>Login and Registration Form in HTML </title>

<link rel="stylesheet" href="style.css">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

</head>

<body>

<div class="wrapper">

<div class="title-text">

<div class="title login">

Login Form

</div>

<div class="title signup">

Signup 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="signup">

<label for="login" class="slide login">Login</label>

<label for="signup" class="slide signup">Signup</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="signup-link">

Not a member? <a href="">Signup now</a>

</div>

</form>

<form action="#" class="signup">

<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="Signup">

</div>

</form>

</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>

</body>

</html>