**index.html**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title>Convex Unit Convertor</title>

<link href="https://fonts.googleapis.com/css2?family=Roboto:wght@50&display=swap" rel="stylesheet">

<link href="https://fonts.googleapis.com/css2?family=Montserrat:wght@300&family=Roboto:wght@300&display=swap" rel="stylesheet">

<link href="https://fonts.googleapis.com/css2?family=Montserrat:wght@300&family=Raleway:wght@300&family=Roboto:wght@300&display=swap" rel="stylesheet">

<link rel="stylesheet" type="text/css" href="style.css">

<script src="script.js"></script>

</head>

<body>

<header><img src="logoimg2.jpeg" id="logoimg">

<span id="header\_name">Convex Unit Convertor<span>

</header>

<div class="maincontent">

<h3>Designed for an Engineer's Ease.</h3>

<div class="mainbox" align="left">

<p class="inputs"><label>Select the Mechanical Property</label>

<div class="make\_center">

<select class="dropdwns" id="mp" onchange="mechprop()">

<option>Choose the property</option>

<option id="q1">Stress</option>

<option id="q2">Angular velocity</option>

<option id="q3">Viscosity</option>

<option id="q4">Pressure</option>

<option id="q5">Izod And Charpy</option>

</select>

</div></p><br>

<form id="propunits"></form>

</div>

<div class="vl"></div>

<div class="info\_box">

<div class="info">

<p id="info\_title">About The Project</p>

Hello! Our website is for the unit conversion of various Mechanical Properties.

We, Group 113 have used multiple elements to bring this webpage live to our users.

We have used HTML, Javascript and CSS, which make this webpage interactive, modern and user-friendly. We have also provided hyperlinks to the Formula page which users can refer to, if they want to look for some specific formula

<br><br><a href="conversions\_list.pdf" class="info\_page" target="\_blank">Conversion List</a><br>

<a href="infoprop.pdf" class="info\_page" target="\_blank">Mechanical Property</a>

</div>

</div>

</div>

<!--<button type="button" onclick="formula\_dist()">tester</button>-->

<footer>

<div id="footer\_things">

&copy; All Rights Reserved<br>

Group Project No. 113

<p id="site"><a href="https://www.tcetmumbai.in/" id="site\_ref" target="\_new">Go to Report</a></p>

</div>

</footer>

</body>

</html>

**style.css**

body{margin: 0px;

background-image: url("bg.png");}

header{font-family: 'Roboto', sans-serif;

background-color: #0061a5;

margin-top: 0px;

padding: 10px;

color: white;

text-align: left;

}

#header\_name{font-size: 4em;

text-shadow: 5px 4px 10px black;

}

#logoimg{width: 100px;

height: 100px;

margin-left: 40px;

margin-right: 30px;}

h3{text-align: center;

margin-top: 0px;

font-family: 'Montserrat', sans-serif;

font-family: 'Roboto', sans-serif;

font-size: 2em;

margin-top: 50px;

color: white;}

h2{

text-align: center;

font-family: 'Montserrat', sans-serif;

font-family: 'Roboto', sans-serif;

font-size: 2em;

color: white;

}

.mainbox{border: 1.5px solid white;

width: 25%;

border-radius: 6px;

margin-left: 200px;

margin-top: 100px;

float: left;

background-color: #0061a5;

}

.inputs{margin-left: 60px;}

.make\_center{text-align: center;}

#mp{width: 75%;

margin-bottom: 20px;}

.dropdwns{

font-size: 1.5em;

background-color: white;

color: #0061a5;

border-radius: 6px;

padding: 5px;

font-family: 'Montserrat', sans-serif;

font-family: 'Raleway', sans-serif;

font-family: 'Roboto', sans-serif;}

select{text-align-last:center;}

label{

color: white;

font-size: 0.95em;

font-family: 'Montserrat', sans-serif;

font-family: 'Raleway', sans-serif;

font-family: 'Roboto', sans-serif;

font-weight: bolder;

}

input{

background-color: white;

color: #0061a5;

border-radius: 6px;

font-family: 'Montserrat', sans-serif;

font-family: 'Raleway', sans-serif;

font-family: 'Roboto', sans-serif;}

input[type=number]{margin-top: 0px;

margin-right: 20px;

width: 55%;

font-size: 1.5em;

padding: 5px;}

input[type=reset]{margin-top: 50px;

margin-bottom: 20px;

width: 50%;

font-size: 1em;

padding: 10px;

font-weight: bold;}

input[type=reset]:hover, #down\_li:hover{

color: white;

background-color: #0061a5;

}

.vl {

border-left: 0.8px solid white;

height: 550px;

position: absolute;

left: 50%;

margin-left: -3px;

top: 27%;

}

.info\_box{position: absolute;

left: 50%;

clear: right;

background-color: #0061a5;

font-size: 1.2em;

width: 25%;

height: 47%;

margin-left: 200px;

margin-top: 100px;

border-radius: 6px;

font-family: 'Montserrat', sans-serif;

font-family: 'Raleway', sans-serif;

}

.info{padding: 20px;

color: white;

text-align: justify;;}

#info\_title{text-align:center;

font-size: 1.5em;}

.info\_page{

color: white;

}

footer{background-color: black;

color: white;

position: fixed;

bottom:0;

width: 100%;

font-size: 1em;

padding: 20px;

font-family: 'Roboto', sans-serif;}

#site{position: absolute;

left: 88.5%;

top:0px;}

#site\_ref{color: white;}

.conversion\_li{font-size: 1.2em;

width: 35%;

float:left;

margin-right: 2%;

margin-left: 2%;

border: 2px solid #0061a5;}

#stresscon{position: absolute;

left: 5%;

top:20%;}

#avcon{position: absolute;

left: 55%;

top:30%;}

#viscon{position: absolute;

left: 5%;

top:100%;}

#precon{position: absolute;

left: 55%;

top:110%;}

#izchcon{position: absolute;

left: 5%;

top:150%;}

#down\_li{background-color: white;

color: #0061a5;

border-radius: 6px;

font-family: 'Montserrat', sans-serif;

font-family: 'Raleway', sans-serif;

position: absolute;

left: 5%;

top: 180%;

padding: 10px;

margin-right: 2%;

margin-left: 2%;}

**script.js**

function mechprop() {

if(document.getElementById('q1').selected) {

document.getElementById('propunits').innerHTML =

`<p class="inputs"><label>Convert</label>

<div class="make\_center">

<input type="number" onchange="formula\_dist(this.value)" oninput="formula\_dist(this.value)">

<select class="dropdwns">

<option id>Unit1</option>

<option id="u11">Pa</option>

<option id="u12">Mpa</option>

<option id="u13">Gpa</option>

</select>

</div></p>

<p class="inputs"><label>To</label><br>

<div class="make\_center">

<input type="number" id="target\_box">

<select class="dropdwns">

<option>Unit2</option>

<option id="u21">Pa</option>

<option id="u22">Mpa</option>

<option id="u23">Gpa</option>

</select>

<br>

<input type="reset" value="Reset Fields">

</div>`;

}

else if (document.getElementById('q2').selected) {

document.getElementById('propunits').innerHTML =

`<p class="inputs"><label>Convert</label><br>

<div class="make\_center">

<input type="number" onchange="formula\_dist(this.value)" oninput="formula\_dist(this.value)">

<select class="dropdwns">

<option id>Unit1</option>

<option id="u11">RPM</option>

<option id="u12">rad/s</option>

<option id="u13">rad/hr</option>

</select>

</div></p>

<p class="inputs"><label>To</label><br>

<div class="make\_center">

<input type="number" id="target\_box">

<select class="dropdwns">

<option>Unit2</option>

<option id="u21">RPM</option>

<option id="u22">rad/s</option>

<option id="u23">rad/hr</option>

</select>

<br>

<input type="reset" value="Reset Fields">

</div></p>`;

}

else if (document.getElementById('q3').selected) {

document.getElementById('propunits').innerHTML =

`<p class="inputs"><label>Convert</label><br>

<div class="make\_center">

<input type="number" onchange="formula\_dist(this.value)" oninput="formula\_dist(this.value)">

<select class="dropdwns">

<option id>Unit1</option>

<option id="u11">Ns/m<sup>2</sup></option>

<option id="u12">Poise</option>

<option id="u13">kgf-sec/m2</option>

</select>

</div></p>

<p class="inputs"><label>To</label><br>

<div class="make\_center">

<input type="number" id="target\_box">

<select class="dropdwns">

<option>Unit2</option>

<option id="u21">Ns/m<sup>2</sup></option>

<option id="u22">Poise</option>

<option id="u23">kgf-sec/m2</option>

</select>

<br>

<input type="reset" value="Reset Fields">

</div>`;

}

else if (document.getElementById('q4').selected) {

document.getElementById('propunits').innerHTML =

`<p class="inputs"><label>Convert</label><br>

<div class="make\_center">

<input type="number" onchange="formula\_dist(this.value)" oninput="formula\_dist(this.value)">

<select class="dropdwns">

<option id>Unit1</option>

<option id="u11">atm</option>

<option id="u12">bar</option>

<option id="u13">mmHg</option>

</select>

</div></p>

<p class="inputs"><label>To</label><br>

<div class="make\_center">

<input type="number" id="target\_box">

<select class="dropdwns">

<option>Unit2</option>

<option id="u21">atm</option>

<option id="u22">bar</option>

<option id="u23">mmHg</option>

</select>

<br>

<input type="reset" value="Reset Fields">

</div>`;

}

else if (document.getElementById('q5').selected) {

document.getElementById('propunits').innerHTML =

`<p class="inputs"><label>Convert</label><br>

<div class="make\_center">

<input type="number" onchange="formula\_dist(this.value)" oninput="formula\_dist(this.value)">

<select class="dropdwns">

<option id>Unit1</option>

<option id="u11">Izod</option>

<option id="u12">Charpy</option>

</select>

</div></p>

<p class="inputs"><label>To</label><br>

<div class="make\_center">

<input type="number" id="target\_box">

<select class="dropdwns">

<option>Unit2</option>

<option id="u21">Izod</option>

<option id="u22">Charpy</option>

</select>

<br>

<input type="reset" value="Reset Fields">

</div>`;

}

else {

document.getElementById('propunits').innerHTML = "";

}

}

function formula\_dist(num) {

if(document.getElementById('q1').selected) {

if((document.getElementById('u11').selected) && (document.getElementById('u22').selected)) {

document.getElementById("target\_box").value = num\*(10\*\*(-6));

}

else if((document.getElementById('u11').selected) && (document.getElementById('u23').selected)) {

document.getElementById("target\_box").value = num\*(10\*\*(-9));

}

else if((document.getElementById('u12').selected) && (document.getElementById('u21').selected)) {

document.getElementById("target\_box").value = num\*(10\*\*6);

}

else if((document.getElementById('u12').selected) && (document.getElementById('u23').selected)) {

document.getElementById("target\_box").value = num\*(10\*\*(-3));

}

else if((document.getElementById('u13').selected) && (document.getElementById('u21').selected)) {

document.getElementById("target\_box").value = num\*(10\*\*(9));

}

else if((document.getElementById('u13').selected) && (document.getElementById('u22').selected)) {

document.getElementById("target\_box").value = num\*(10\*\*(3));

}

}

else if(document.getElementById('q2').selected) {

if((document.getElementById('u11').selected) && (document.getElementById('u22').selected)) {

document.getElementById("target\_box").value = num\*((2\*3.14)/60);

}

else if((document.getElementById('u11').selected) && (document.getElementById('u23').selected)) {

document.getElementById("target\_box").value = num\*(120\*3.14);

}

else if((document.getElementById('u12').selected) && (document.getElementById('u21').selected)) {

document.getElementById("target\_box").value = num\*(60/(2\*3.14));

}

else if((document.getElementById('u12').selected) && (document.getElementById('u23').selected)) {

document.getElementById("target\_box").value = num\*(3600);

}

else if((document.getElementById('u13').selected) && (document.getElementById('u21').selected)) {

document.getElementById("target\_box").value = num/(120\*3.14);

}

else if((document.getElementById('u13').selected) && (document.getElementById('u22').selected)) {

document.getElementById("target\_box").value = num/3600;

}

}

else if(document.getElementById('q3').selected) {

if((document.getElementById('u11').selected) && (document.getElementById('u22').selected)) {

document.getElementById("target\_box").value = num\*10;

}

else if((document.getElementById('u11').selected) && (document.getElementById('u23').selected)) {

document.getElementById("target\_box").value = num/9.80665;

}

else if((document.getElementById('u12').selected) && (document.getElementById('u21').selected)) {

document.getElementById("target\_box").value = num/10;

}

else if((document.getElementById('u12').selected) && (document.getElementById('u23').selected)) {

document.getElementById("target\_box").value = num/98.0665;

}

else if((document.getElementById('u13').selected) && (document.getElementById('u21').selected)) {

document.getElementById("target\_box").value = num\*9.80665;

}

else if((document.getElementById('u13').selected) && (document.getElementById('u22').selected)) {

document.getElementById("target\_box").value = num\*98.0665;

}

}

else if(document.getElementById('q4').selected) {

if((document.getElementById('u11').selected) && (document.getElementById('u22').selected)) {

document.getElementById("target\_box").value = num\*1.01325;

}

else if((document.getElementById('u11').selected) && (document.getElementById('u23').selected)) {

document.getElementById("target\_box").value = numk\*760;

}

else if((document.getElementById('u12').selected) && (document.getElementById('u21').selected)) {

document.getElementById("target\_box").value = numa/1.01325;

}

else if((document.getElementById('u12').selected) && (document.getElementById('u23').selected)) {

document.getElementById("target\_box").value = num\*750.062;

}

else if((document.getElementById('u13').selected) && (document.getElementById('u21').selected)) {

document.getElementById("target\_box").value = num/760;

}

else if((document.getElementById('u13').selected) && (document.getElementById('u22').selected)) {

document.getElementById("target\_box").value = num\*\*133.322368;

}

}

else if(document.getElementById('q5').selected) {

if((document.getElementById('u11').selected) && (document.getElementById('u22').selected)) {

document.getElementById("target\_box").value = num/2.738223;

}

else if((document.getElementById('u12').selected) && (document.getElementById('u21').selected)) {

document.getElementById("target\_box").value = num\*2.738223;

}

}

}