var devicePixelRatio = window.devicePixelRatio;

var screenScaleRatio = 1080 / screen.width;

//console.log(devicePixelRatio);

var metaData = document.getElementsByName('viewport');

metaData[0].content = "width=device-width, initial-scale=" + 1 / screenScaleRatio.toString();

//console.log(metaData[0].content);

var loading\_screen = document.getElementById('loading-screen');

// window.onresize = function () {

// location.reload();

// }

/\* For filling up the numbers which will slide \*/

var number\_container = document.getElementsByClassName('numbers\_container');

for (let elements of number\_container) {

var random = Math.floor(Math.random() \* 7 + 1);

elements.style.top = (-random \* 100).toString() + '%';

for (let j = 0; j < 9; j++) {

var temp = document.createElement('span');

temp.className = 'inside\_number';

temp.innerText = (j + 1);

elements.append(temp);

}

}

/\*...Declaring the global variables for right/wrong check..\*/

var check\_1 = document.getElementById('first\_check');

var check\_2 = document.getElementById('second\_check');

var check\_3 = document.getElementById('third\_check');

var check\_4 = document.getElementById('fourth\_check');

/\*... for the transition of numbers using buttons...\*/

function poly1() {

if (reactant\_1.multiplier < 9) {

var top\_measure = Number(number\_container[0].style.top.slice(0, -1));

top\_measure = top\_measure - 100;

number\_container[0].style.top = top\_measure.toString() + '%';

reactant\_1.multiplier = Number(number\_container[0].style.top.slice(0, -1)) / -100 + 1;

reactant\_1.update\_element\_numbers();

update\_reactant\_column();

update\_check\_column();

paragraph\_show();

}

}

function poly2() {

if (reactant\_2.multiplier < 9) {

var top\_measure = Number(number\_container[1].style.top.slice(0, -1));

top\_measure = top\_measure - 100;

number\_container[1].style.top = top\_measure.toString() + '%';

reactant\_2.multiplier = Number(number\_container[1].style.top.slice(0, -1)) / -100 + 1;

reactant\_2.update\_element\_numbers();

update\_reactant\_column();

update\_check\_column();

paragraph\_show();

}

}

function poly3() {

if (product\_1.multiplier < 9) {

var top\_measure = Number(number\_container[2].style.top.slice(0, -1));

top\_measure = top\_measure - 100;

number\_container[2].style.top = top\_measure.toString() + '%';

product\_1.multiplier = Number(number\_container[2].style.top.slice(0, -1)) / -100 + 1;

product\_1.update\_element\_numbers();

update\_product\_column();

update\_check\_column();

paragraph\_show();

}

}

function poly4() {

if (product\_2.multiplier < 9) {

var top\_measure = Number(number\_container[3].style.top.slice(0, -1));

top\_measure = top\_measure - 100;

number\_container[3].style.top = top\_measure.toString() + '%';

product\_2.multiplier = Number(number\_container[3].style.top.slice(0, -1)) / -100 + 1;

product\_2.update\_element\_numbers();

update\_product\_column();

update\_check\_column();

paragraph\_show();

}

}

function poly5() {

if (reactant\_1.multiplier > 1) {

var top\_measure = Number(number\_container[0].style.top.slice(0, -1));

top\_measure = top\_measure + 100;

number\_container[0].style.top = top\_measure.toString() + '%';

reactant\_1.multiplier = Number(number\_container[0].style.top.slice(0, -1)) / -100 + 1;

reactant\_1.update\_element\_numbers();

update\_reactant\_column();

update\_check\_column();

paragraph\_show();

}

}

function poly6() {

if (reactant\_2.multiplier > 1) {

var top\_measure = Number(number\_container[1].style.top.slice(0, -1));

top\_measure = top\_measure + 100;

number\_container[1].style.top = top\_measure.toString() + '%';

reactant\_2.multiplier = Number(number\_container[1].style.top.slice(0, -1)) / -100 + 1;

reactant\_2.update\_element\_numbers();

update\_reactant\_column();

update\_check\_column();

paragraph\_show();

}

}

function poly7() {

if (product\_1.multiplier > 1) {

var top\_measure = Number(number\_container[2].style.top.slice(0, -1));

top\_measure = top\_measure + 100;

number\_container[2].style.top = top\_measure.toString() + '%';

product\_1.multiplier = Number(number\_container[2].style.top.slice(0, -1)) / -100 + 1;

product\_1.update\_element\_numbers();

update\_product\_column();

update\_check\_column();

paragraph\_show();

}

}

function poly8() {

if (product\_2.multiplier > 1) {

var top\_measure = Number(number\_container[3].style.top.slice(0, -1));

top\_measure = top\_measure + 100;

number\_container[3].style.top = top\_measure.toString() + '%';

product\_2.multiplier = Number(number\_container[3].style.top.slice(0, -1)) / -100 + 1;

product\_2.update\_element\_numbers();

update\_product\_column();

update\_check\_column();

paragraph\_show();

}

}

var table\_data = document.getElementsByTagName('td');

var reactant\_1 = {

Cu: 1, S: 1, O: 4, multiplier: 1,

update\_element\_numbers: function () {

this.Cu = this.multiplier \* 1;

this.S = this.multiplier \* 1;

this.O = this.multiplier \* 4;

}

};

var reactant\_2 = {

Zn: 1, multiplier: 1,

update\_element\_numbers: function () {

this.Zn = this.multiplier \* 1;

}

};

var product\_1 = {

Zn: 1, S: 1, O: 4, multiplier: 1,

update\_element\_numbers: function () {

this.Zn = this.multiplier \* 1;

this.S = this.multiplier \* 1;

this.O = this.multiplier \* 4;

}

};

var product\_2 = {

Cu: 1, multiplier: 1,

update\_element\_numbers: function () {

this.Cu = this.multiplier \* 1;

}

};

//Initialising the values of table data and other

reactant\_1.multiplier = Number(number\_container[0].style.top.slice(0, -1)) / -100 + 1;

reactant\_2.multiplier = Number(number\_container[1].style.top.slice(0, -1)) / -100 + 1;

product\_1.multiplier = Number(number\_container[2].style.top.slice(0, -1)) / -100 + 1;

product\_2.multiplier = Number(number\_container[3].style.top.slice(0, -1)) / -100 + 1;

product\_1.update\_element\_numbers();

product\_2.update\_element\_numbers();

reactant\_1.update\_element\_numbers();

reactant\_2.update\_element\_numbers();

var reactant\_column = [];

var product\_column = [];

var balance\_column = [];

for (let i = 0; i < 4; i++) {

reactant\_column[i] = table\_data[4 \* i + 1];

product\_column[i] = table\_data[4 \* i + 2];

balance\_column[i] = table\_data[4\*1 + 3];

}

function update\_reactant\_column() {

reactant\_column[0].innerText = reactant\_1.Cu;

reactant\_column[1].innerText = reactant\_1.S;

reactant\_column[2].innerText = reactant\_1.O;

reactant\_column[3].innerText = reactant\_2.Zn;

}

function update\_product\_column() {

product\_column[0].innerText = product\_2.Cu;

product\_column[1].innerText = product\_1.S;

product\_column[2].innerText = product\_1.O;

product\_column[3].innerText = product\_1.Zn;

}

update\_reactant\_column();

update\_product\_column();

update\_check\_column();

paragraph\_show();

function update\_check\_column()

{

if (reactant\_column[0].innerText != product\_column[0].innerText)

{

check\_1.classList.remove("right");

check\_1.classList.add("wrong");

}else

{

check\_1.classList.remove("wrong");

check\_1.classList.add("right");

}

if (reactant\_column[1].innerText != product\_column[1].innerText){

check\_2.classList.remove("right");

check\_2.classList.add("wrong");

}else

{

check\_2.classList.remove("wrong");

check\_2.classList.add("right");

}

if (reactant\_column[2].innerText != product\_column[2].innerText)

{

check\_3.classList.remove("right");

check\_3.classList.add("wrong");

}else

{

check\_3.classList.remove("wrong");

check\_3.classList.add("right");

}

if (reactant\_column[3].innerText != product\_column[3].innerText)

{

check\_4.classList.remove("right");

check\_4.classList.add("wrong");

}else

{

check\_4.classList.remove("wrong");

check\_4.classList.add("right");

}

}

/\*... for showing the feedback message...\*/

function paragraph\_show()

{

var remarks = document.getElementById("para");

if (check\_1.classList[1] == "right" && check\_2.classList[1] == "right" && check\_3.classList[1] == "right" && check\_4.classList[1] == "right")

{

if (reactant\_1.multiplier == 1 && reactant\_2.multiplier == 1)

{

remarks.innerText = "The equation is balanced.";

}

else

{

remarks.innerText = "The equation is balanced but the coefficients should be smallest possible integer.";

}

}

else

{

remarks.innerText = "The equation is not balanced yet.";

}

}