<! --doctype html -->

<html>

<head>

<style type="text/css">

.andika{

font-size: 25pt; color: green;

}

. chizi{

font-size: 25pt; color: blue;

}

p{

font-family: courier new;

}

#inputText span{ color:blue;

}

</style>

<script>

/\* Displays Search Notification

Calls the moveRight () and toTheEnd () functions, depending on the search results. \*/

function rEturn (){

var me;

me = mySearch ();

if (me! = -1) {

moveRight ();

}

else {

toTheEnd ();

}

}

</script>

<script>

//Uses Brute force Algorithm through its application of Exhaustive Search to determine if the PATTERN is contained in the TEXT.

function mySearch (){

var tExt = dIsplay();

var userInput = dIsplay2(); var M = userInput.length; var N = tExt.length;

var i; var j;

for (var i = 0; i <= N - M; ++i) {

var matched = true; for (var j = 0; j < M; ++j) {

if (tExt.charAt(i + j)!= userInput.charAt(j)){

matched = false;

break;

}

}

if (matched){

return i;

}

}

return -1;

}

</script>

<script>

// Captures tExt(TEXT) and returns it to the searching function. function dIsplay(){

var tExt = document.getElementById("tExt").value;

document.getElementById("dem").innerHTML = tExt;

return tExt;

}

</script>

<script>

// Captures userInput(PATTERN) and returns it to the searching function. function dIsplay2(){

var userInput = document.getElementById("userInput").value; document.getElementById("demo").innerHTML=    userInput;

return userInput;

}

</script>

<script>

var patObj = null; var internId;

var nIntervId;

//Initialises the Timeout IDs during Window Onload function init(){

patObj = document.getElementById('demo'); patObj.style.position= 'relative'; patObj.style.left = '0px';

}

/\* Moves the PATTERN to where the search has been found in the TEXT

Calls the function that stops the PATTEN and that which changes the matching TEXT color \*/ function moveRight(){

nIntervId = setTimeout( function (){moveRight();},900); var me = mySearch();

var t = me;

if(t == 0 ){

highlight(); stop();

//patObj.style.left = '0px';

}

else {

hop ();

if ( nIntervId == t ){

highlight (); stop ();

}

}

}

//Moves the PATTERN by 20px for every movement/scroll function hop (){

patObj.style.left = parseInt(patObj.style.left) + 20 + 'px';

}

//Scrolls/moves the PATTERN to the end of the TEXT and stops in when the search is NOT FOUND.

function toTheEnd () {

internId = setTimeout( function (){toTheEnd();},900);

var tExt = document.getElementById("tExt").value; var l = tExt.length;

hop();

if ( internId == l){ stopper();

}

}

//Stops the PATTERN at the point where the search has been FOUND. function stop(){

document.getElementById("dem1").innerHTML = ("Search found"); clearTimeout(nIntervId);

}

//Stops the PATTERN at the end of the TEXT when the search is NOT FOUND.

function stopper () {

document.getElementById("dem1").innerHTML = ("Search not found"); clearTimeout(internId);

}

function stopper1(){

//document.getElementById("dem1").innerHTML = ("Search process stopped"); clearTimeout(internId);

clearTimeout(nIntervId);

}

window.onload =init;

</script>

<script>

//Changes the TEXT color when the PATTERN scroll and reaches the point where the search has been FOUND.

function highlight(){

var pattern = document.getElementById("userInput").value; inputText = document.getElementById("inputText");

var innerHTML = inputText.innerHTML; var index = innerHTML.indexOf(text);

if (index >= 0)

{

innerHTML = innerHTML.substring(0, index) + "<span class='highlight'>"

+    innerHTML.substring(index, index+pattern. length)

+ "</span>" + innerHTML.substring(index + pattern. length); inputText.innerHTML = innerHTML;

}

}

</script>

</head>

<body>

<!--

This part contains:

* Buttons used to call various functions.

* Paragraphs displaying the TEXT and PATTERN.

* The DIVs that define various classes used in CSS for text formatting.

-->

<p> Enter the <b>text</b> to search from and the <b>pattern</b> to search from it below:</p>

<p><b> TEXT:</br><input type="text” oninput = " dIsplay ()" id="tExt"> </b></p>

<! -- <button >TEXT</button></br> -->

<p><b>PATTERN:</br><input type="text" oninput =" dIsplay2()" name = "see" id="userInput"> </b></p>

<! -- <button PATTERN</button> -->

<button onclick=" rEturn()">Search</button>

<button onclick=" stopper1()">Stop</button>

<a href = "javascript:history.go(0)"> <button>Refresh</button> </a>

<div id="inputText" class = "highlight">

<p id="dem" class = "andika"></p></div>

<p id="demo" class = "chizi"></p>

<p> <b> <u> SEARCH NOTIFICATION: </u> </b> </p>

<p id="dem1"></p>

</body>

</html>