	PUNE INSTITUTE OF COMPUTER TECHNOLOGY, PUNE - 411043
	DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGG.
	ACADEMIC YEAR : 2023-24 SEM: 1

CLASS : BE 7 [S7]	SUBJECT : JavaScript

EXPT. NO. : 4	Roll No.: 42373	DATE :

CODE :

```html
<!DOCTYPE html>
<html>
  <body style="text-align: center; background-color: beige;"></body>>
  <h1>String Comparison</h1>
  <h2>42372 V Raghavendra Reddy</h2>
          <br>
  String 1= <input type="text" id="st1" value=" ">
  <br></br>
  String 2= <input type="text" id="st2" value=" ">
  <br><br>
  <button style="background:rgb(20, 214, 191)" id="myBtn" onclick="set_string()">Compare
Strings</button>
```

```html
<br>Result using to uppercase() method= <p id="casing"></p>
<br>Result using to RegEx method: <p id="regex"></p>
<br>Result using localeCompare method: <p id="locom"></p>
<br>Result using Strict Eqaulity method: <p id="equality"></p>
<br>Result using User Defined Method (comparing ASCII Values):<p id="userdef"></p>

<script>
  function set_string()
  {
              var string1  = document.getElementById("st1").value;
    var string2  = document.getElementById("st2").value;
    document.getElementById("casing").innerHTML="";
    document.getElementById("regex").innerHTML="";
    document.getElementById("locom").innerHTML="";
    document.getElementById("equality").innerHTML="";
    document.getElementById("userdef").innerHTML="";
    com1(string1,string2);
    com2(string1,string2);
    com3(string1,string2);
    com4(string1,string2);
    com5(string1,string2);


      }

    function com1(string1,string2)
    {
```

```
        var ot;
     const result1 = string1.toUpperCase() === string2.toUpperCase();

     if(result1) {
          ot="The strings are similar ";


       } else {
           ot="The strings are not similar ";


     }

     document.getElementById("casing").innerHTML=ot;

      }



    function com2(string1,string2)
      {

     const pattern = new RegExp(string1, "gi");
       var ot;
      // compare the stings
      const result2 = pattern.test(string2)

     if(result2) {
          ot="The strings are similar <br><br>";


       } else {
          ot="The strings are not similar <br><br>";


     }
     document.getElementById("regex").innerHTML=ot;

   }

 function com3(string1,string2)
    {

   // program to perform case insensitive string comparison
     var ot;
    const result3 = string1.localeCompare(string2, undefined, { sensitivity: 'base' });

   if(result3 == 0) {
       ot="The strings are similar <br><br>";
```

```
    } else {
      ot="The strings are not similar <br><br>";


    }

    document.getElementById("locom").innerHTML=ot;
}


function com4(string1,string2)
    {


   var ot;

    if( string1 === string2)
    {
     ot="The strings are similar <br><br>";

    }
    else
    {
     ot="The strings are not similar";

    }

   document.getElementById("equality").innerHTML=ot;
   }

  function com5(string1, string2){
   var op;
   if(string1.length!=string2.length) {op="String 1 size is not the same as String 2 size";}
   else{
   let i=0;
   for(;i<string1.length;i++){
    if(string1.charCodeAt(i)!=string2.charCodeAt(i)) {op=`String 1 and String 2 are not equal as
ASCII value of charachters at index ${i} are not equal.`; break;}
   }

   if(i==string1.length) op="String 1 and String 2 are equal";}

   document.getElementById("userdef").innerHTML=op;
  }
</script>
  </body>
</html>
```

OUTPUT :

String Comparison

42372 V Raghavendra Reddy

String 1= raghav

String 2= Raghav

Compare Strings

Result using to uppercase() method=

The strings are similar

Result using to RegEx method:

The strings are similar

Result using localeCompare method:

The strings are similar

Result using Strict Eqaulity method:

The strings are not similar

Result using User Defined Method (comparing ASCII Values):

String 1 and String 2 are not equal as ASCII value of charachters at index 1 are not equal.