1)   Write a JS program to read from a JSON object and display the data in a table (HTML page)

s1.json
```
{ "student":[
  {"name": "Bhavana", "age": 20,   "college": "KMIT", "year": 3, "sem": 1 },
  { "name": "Ram", "age": 21, "college": "JNTU", "year": 4,"sem": 2 },
  { "name": "John", "age": 26, "college": "KMEC", "year": 1,"sem": 1 },
  { "name": "Reena", "age": 19, "college": "NGIT", "year": 3,"sem": 1 }
]
}
```

nineIX.html
```html
<!DOCTYPE html>
<html>
<head>
    <title>Convert JSON Data to HTML Table</title>
    <style>
        th, td, p, input {
            font:14px Verdana;
        }
        table, th, td
        {
            border: solid 2px #DDD;
            border-collapse: collapse;
            padding: 2px 3px;
            text-align: center;
        }
        th {
            font-weight:bold;
        }
    </style>
</head>
<body>
    <input type="button" onclick="CreateTableFromJSON()" value="Create Table From JSON" />
    <p id="showData"></p>
</body>

<script>
    function CreateTableFromJSON() {
        fetch("s1.json")
        .then (response => response.json())
        .then(data => {
        // EXTRACT VALUE FOR HTML HEADER.
        // ('Name', 'Age', 'College', 'Year',Sem)
        var col = [];
        for (var i = 0; i < data.student.length; i++) {
            for (var key in data.student[i]) {
                if (col.indexOf(key) === -1) {
                    col.push(key);
                }
            }
        }
            console.log(col);
        // CREATE DYNAMIC TABLE.
```

```javascript
        var table = document.createElement("table");

        // CREATE HTML TABLE HEADER ROW USING THE EXTRACTED HEADERS ABOVE.

        var tr = table.insertRow(-1);                    // TABLE ROW.

        for (var i = 0; i < col.length; i++) {
            var th = document.createElement("th");      // TABLE HEADER.
            th.innerHTML = col[i];
            tr.appendChild(th);
        }

        // ADD JSON DATA TO THE TABLE AS ROWS.
        for (var i = 0; i < data.student.length; i++) {

            tr = table.insertRow(-1);

            for (var j = 0; j < col.length; j++) {
                var tabCell = tr.insertCell(-1);
                tabCell.innerHTML = data.student[i][col[j]];
            }
        }

        // FINALLY ADD THE NEWLY CREATED TABLE WITH JSON DATA TO A CONTAINER.
        var divContainer = document.getElementById("showData");
        divContainer.innerHTML = "";
        divContainer.appendChild(table);
    })
    }
</script>
</html>
```

2) Write a JavaScript program which accepts a string as input and swap the case of
each character.
    For example if you input 'The Quick Brown Fox' the output should be
'tHEqUICKbROWNfOX'.   – "one.js"

```javascript
const readline = require('readline');
var RL = readline.createInterface(process.stdin, process.stdout);
RL.question('Please Enter Text:  ', (name)=>{
  let x=name;
  let y="";
for(let i=0;i<x.length;i++)
{
if (x.charAt(i) >='A' && x.charAt(i) <= 'Z')
y=y+x.charAt(i).toLowerCase();
else if(x.charAt(i) >='a' && x.charAt(i) <= 'z')
y=y+x.charAt(i).toUpperCase();
}

  console.log(`Output is is ${y}`);

});
```

```
EXPECTED OUTPUT:

Sample input:  The Quick Brown Fox
Sample Output: tHEqUICKbROWNfOX
```