10. Write a PHP program to sort the student records which are stored in the database using selection sort.

```
<!DOCTYPE html>
<html>
<head>
   <title>Selection Sort</title>
</head>

<!-- jQuery 3 -->
<script src="jquery.min.js"></script>

<script type="text/javascript">
var globalData=null;
var tempData;
if(tempData===null||tempData===undefined){
  tempData={};
}

tempData={
   saveRecord:function(){
      var url="ajaxInfo.php";
      var formEQData = new FormData($('#formRecord')[0]);
      formEQData.append("saveRecord","saveRecord");

      $.ajax({
        type:"POST",
        url:url,
        async: false,
        dataType: 'json',
        cache : false,
        processData: false,
        contentType: false,
        data:formEQData,
        success: function(obj) {
           alert(obj.msg);
           tempData.getRecord(); // Calling function to fetch the Record from DB.
        }
      });
   },
   getRecord:function(){
      var url="ajaxInfo.php";
      var myData = {getRecord:'getRecord'};

      $.ajax({
        type:"POST",
        url:url,
        async: false,
        dataType: 'json',
        data:myData,
```

```
        success: function(obj) {
          globalData=obj.studentArr; // Assigning to Global Variable

          var content="";
           $('#tableRow').html("");
          for(var i = 0; i<obj.studentArr.length; i++) {

content+='<tr><td>'+obj.studentArr[i].stu_id+'</td><td>'+obj.studentArr[i].stu_name+'</td>
'+'<td>'+obj.studentArr[i].stu_mobile+'</td><td>'+obj.studentArr[i].stu_email+'</td></tr>';
           }
           $('#tableRow').append(content);
        }
      });
   },
   selectionSort:function(){
      var url="ajaxInfo.php";
      var myData = {selectionSort:'selectionSort'};

      $.ajax({
        type:"POST",
        url:url,
        async: false,
        dataType: 'json',
        data:myData,
        success: function(obj) {
          var content="";
           $('#tableRow').html("");

         for(var i = 0; i<obj.sortedArr.length; i++) {
            for(var j = 0; j<globalData.length; j++) {
                if(obj.sortedArr[i]==globalData[j].stu_id){

content+='<tr><td>'+globalData[j].stu_id+'</td><td>'+globalData[j].stu_name+'</td>'
+'<td>'+globalData[j].stu_mobile+'</td><td>'+globalData[j].stu_email+'</td></tr>';
                }

            }
          }
           $('#tableRow').append(content);


        }
      });
   }
};


$(document).ready(function() {
   tempData.getRecord();
});
```

```
</script>
<body>

   <center>
      <h1> Add Student Record </h1>
      <form id="formRecord">
         <table border="0">
            <tr>
               <td>Name</td>
               <td><input type="text" name="name" id="name"></td>
            </tr>
            <tr>
               <td>Mobile Number</td>
               <td><input type="number" name="mobile" id="mobile"></td>
            </tr>
            <tr>
               <td>Email ID</td>
               <td><input type="email" name="email"
            id="email"></td> </tr>
         </table><br>

           <button type="button" onclick="tempData.saveRecord();"
style="width:150px;">Add Student</button>

      </form>
<br/><br/>

<div style="overflow-x: scroll;height: 600px;width:60%;">

<button type="button" style="width:150px;float: right;" onclick="tempData.selectionSort();"
>
Selection Sort</button>

<br/><br/>
<table border=1 style="width:100%;">
  <thead>
    <tr style="text-align: left;">
      <th>Student ID</th>
      <th>Name</th>
      <th>Mobile</th>
      <th>Email</th>
    </tr>
  </thead>
  <tbody id="tableRow">
  </tbody>
</table>
</div>
   </center>

</body>
```

```
</html>

<?php
  require_once('db.php');


/* Fetching the initial data */
/*$Query = 'select * from info';
$fetchRec = mysqli_query($con,$Query) or die(mysqli_error());*/


/* Add the record to DATABASE */
if(isset($_POST['saveRecord']))
{
   $name = $_POST['name'];
   $mobile = $_POST['mobile'];
   $email = $_POST['email'];

   if($name !='' && $mobile !='' && $email !='')
   {
      $stu_id = rand(0,99999); //random number generation

      $Query ="insert into info(stu_id,stu_name,stu_mobile,stu_email)
      values($stu_id,'$name',$mobile,'$email')";
      mysqli_query($con,$Query) or die(mysqli_error());
      $msg = 'Record Saved Successfully !';
   }
   else{
       $msg = "Text Field is empty !";
   }

   $status['msg'] = $msg;
   echo json_encode($status);
   mysqli_close($con);
}

/* read all studrnt data from DATABASE */
if(isset($_POST['getRecord']))
{
   $sql = "select * from info";
   $fetchRec = mysqli_query($con,$sql) or
   die(mysqli_error()); while
   ($row=mysqli_fetch_array($fetchRec)) {

      $stu_id = $row['stu_id'];
      $stu_name = $row['stu_name'];
      $stu_mobile = $row['stu_mobile'];
      $stu_email = $row['stu_email'];

      $studentArr[]=array('stu_id' =>$stu_id,
```

```
                    'stu_name' =>$stu_name,
                    'stu_mobile' =>$stu_mobile,
                    'stu_email' =>$stu_email
                    );
    }

    $status['studentArr'] = $studentArr;
    echo json_encode($status);
    mysqli_close($con);

}

/* read data from DATABASE */
if(isset($_POST['selectionSort']))
{
    $sql = "select * from info";
    $fetchRec = mysqli_query($con,$sql) or
    die(mysqli_error()); while
    ($row=mysqli_fetch_array($fetchRec)) {
        $getStuID[]= $row['stu_id'];
    }
    $selectionArr = selection_sort($getStuID); // calling selection Sort function

    $status['sortedArr'] = $selectionArr;
    echo json_encode($status);
    mysqli_close($con);

}

function selection_sort($data)
{
for($i=0; $i<count($data)-1; $i++) {
    $min = $i;
    for($j=$i+1; $j<count($data); $j++) {
        if ($data[$j]<$data[$min]) {
            $min = $j;
        }
    }
    $data = swap_positions($data, $i, $min);
}
return $data;
}

function swap_positions($data1, $left, $right) {
    $backup_old_data_right_value = $data1[$right];
    $data1[$right] = $data1[$left];
    $data1[$left] = $backup_old_data_right_value;
    return $data1;
}
?>
```

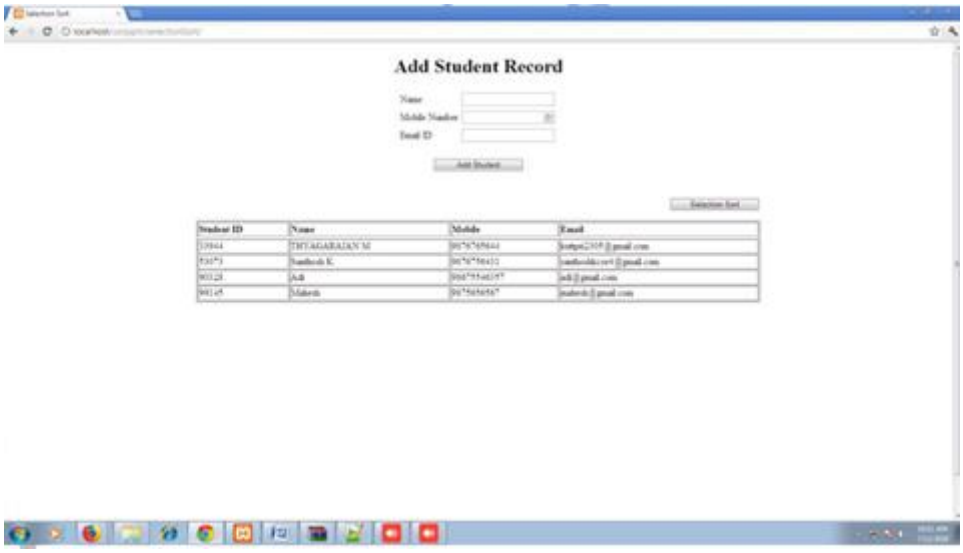
```
<?php
error_reporting(0);
session_start();

   $con =
   mysqli_connect("localhost","root","","student_db"); if
   (mysqli_connect_errno()) {
     echo "Failed to connect to MySQL: " . mysqli_connect_error();
   }
?>
```

Steps to run

1. Create Database in phpmyadmin. [refer student_db.sql file]
2. run file brower.

1. ajaxInfo.php - Database related file [Save, Read, Selection Sort]
2. db.php - connect to database.
3. index.php - Home file [Ajax, JSon,]
4. jquery.min.js - [it will helps to run the ajax]

Output



Add Student Record
Name
Mobile Number
Email ID
Add Student
Selection Sort
Student ID
Name
Mobile
Email