Lab program 8b

Develop a PHP program (with HTML/CSS) to sort the student records which are stored in the database using selection sort.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Student Record Sorter</title>
<style>
body {
font-family: Arial, sans-serif;
line-height: 1.6;
margin: 0;
padding: 20px;
background-color: #f4f4f4;
}
.container {
max-width: 800px;
margin: auto;
background: white;
padding: 20px;
border-radius: 5px;
box-shadow: 0 0 10px rgba(0,0,0,0.1);
}
h1 {
color: #333;
text-align: center;
}
table {
width: 100%;
border-collapse: collapse;
margin-top: 20px;
}
th, td {
padding: 10px;
border: 1px solid #ddd;
text-align: left;
}
th {
background-color: #f2f2f2;
```

```
</style>
</head>
<body>
<div class="container">
<h1>Student Records</h1>
<?php
// Database connection details
$host = 'localhost';
$dbname = 'students records';
$username = 'root';
$password = ";
try {
$pdo = new PDO("mysql:host=$host;dbname=$dbname", $username, $password);
$pdo->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
// Fetch student records
$stmt = $pdo->query("SELECT * FROM students");
$students = $stmt->fetchAll(PDO::FETCH_ASSOC);
echo "Unsorted list";
echo "":
echo "IDNameCGPA";
foreach ($students as $student) {
echo "";
echo "" .$student['id']. "";
echo "" .$student['name']. "";
echo "" .$student['cgpa']. "";
echo "";
}
echo "";
// Selection sort function
function selectionSort(&$arr, $n) {
for (\$i = 0; \$i < \$n - 1; \$i++) {
min_idx = i;
for (\$j = \$i + 1; \$j < \$n; \$j++) {
if ($arr[$j]['cgpa'] < $arr[$min_idx]['cgpa']) {
min idx = j;
}
if ($min idx != $i) {
temp = arr[i];
arr[$i] = arr[$min idx];
arr[min idx] = temp;
```

```
}
}
}
// Sort students by GPA
selectionSort($students, count($students));
// Display sorted student records
echo "Sorted list";
echo "";
echo "IDNameCGPA";
foreach ($students as $student) {
echo "";
echo "" .$student['id']. "";
echo "" .$student['name']. "";
echo "" .$student['cgpa']. "";
echo "";
}
echo "";
} catch(PDOException $e) {
echo "Connection failed: " . $e->getMessage();
}
?>
</div>
</body>
</html>
```