

Aim: Write a PHP program to sort the student records which are stored in the database using ascending/descending order.

```
<?php

$conn = new mysqli("localhost", "root", "", "demo");

if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

$sort_by = isset($_GET['sort_by']) ? $_GET['sort_by'] : 'name';
$order = isset($_GET['order']) ? $_GET['order'] : 'ASC';
$allowed_columns = ['id', 'name', 'marks'];
$allowed_orders = ['ASC', 'DESC'];

if (!in_array($sort_by, $allowed_columns)) $sort_by = 'name';
if (!in_array($order, $allowed_orders)) $order = 'ASC';

$sql = "SELECT * FROM students ORDER BY $sort_by $order";

$result = $conn->query($sql);

?>

<!DOCTYPE html>

<html>

<head>

    <title>Student Record Sorting</title>

    <style>

        h2 {
            text-align: center;
```

```
}

form {

    text-align: center;

    margin-bottom: 20px;

}

table {

    width: 60%;

    margin: auto;

    border-collapse: collapse;

}

th, td {

    border: 1px solid #ddd;

    padding: 10px;

    text-align: center;

}

select, input[type="submit"] {

    padding: 5px 10px;

    margin: 5px;

}

</style>

</head>

<body>

<h2>Sort Student Records</h2>
```

```
<form method="GET">

    <label for="sort_by">Sort by:</label>

    <select name="sort_by" id="sort_by">

        <option value="id" <?= $sort_by == 'id' ? 'selected' : " ?">>ID</option>

        <option value="name" <?= $sort_by == 'name' ? 'selected' : " ?">>Name</option>

        <option value="marks" <?= $sort_by == 'marks' ? 'selected' : " ?">>Marks</option>

    </select>

    <label for="order">Order:</label>

    <select name="order" id="order">

        <option value="ASC" <?= $order == 'ASC' ? 'selected' : " ?">>Ascending</option>

        <option value="DESC" <?= $order == 'DESC' ? 'selected' : " ?">>Descending</option>

    </select>

    <input type="submit" value="Sort">

</form>
```

```
<table>

    <tr>

        <th>ID</th>

        <th>Name</th>

        <th>Marks</th>

    </tr>
```

```
<?php if ($result->num_rows > 0): ?>

    <?php while ($row = $result->fetch_assoc()): ?>
```

```

<tr>

<td><?= $row['id'] ?></td>

<td><?= htmlspecialchars($row['name']) ?></td>

<td><?= $row['marks'] ?></td>

</tr>

<?php endwhile; ?>

<?php else: ?>

<tr><td colspan="3">No records found.</td></tr>

<?php endif; ?>

</table>

</body>

</html>

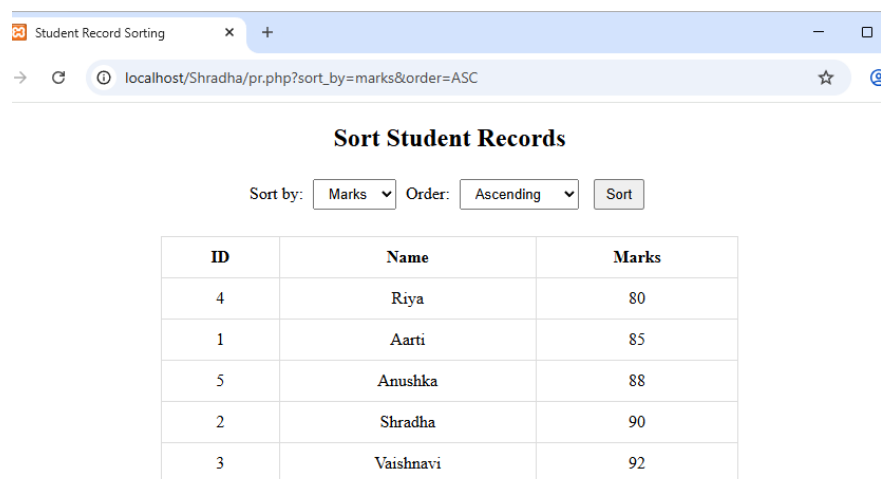
<?php
$conn->close();

?>

```

Output:

- Sort by Marks



Sort Student Records

Sort by: Marks Order: Ascending Sort

ID	Name	Marks
4	Riya	80
1	Aarti	85
5	Anushka	88
2	Shradha	90
3	Vaishnavi	92

- Sort by ID

Record Sorting × +

localhost/Shradha/pr.php?sort_by=id&order=DESC

Sort Student Records

Sort by: ID Order: Descending Sort

ID	Name	Marks
5	Anushka	88
4	Riya	80
3	Vaishnavi	92
2	Shradha	90
1	Aarti	85

- Sort by Name

localhost/Shradha/pr.php?sort_by=name&order=ASC

Sort Student Records

Sort by: Name Order: Ascending Sort

ID	Name	Marks
1	Aarti	85
5	Anushka	88
4	Riya	80
2	Shradha	90
3	Vaishnavi	92

- Sort by marks

Sort Student Records

Sort by: ID Order: Descending Sort

ID	Name	Marks
5	Anushka	88
4	Riya	80
3	Vaishnavi	92
2	Shradha	90
1	Aarti	85