Name: Pawan Pilgulwar

Roll No: 205

Batch: s5

Database Setup (MySQL):

```
CREATE DATABASE student db;
USE student db;
CREATE TABLE students (
  id INT AUTO_INCREMENT PRIMARY KEY,
  name VARCHAR(100),
  roll no VARCHAR(20),
  course VARCHAR(50)
);
INSERT INTO students (name, roll no, course) VALUES
('Mahesh', '201', 'B.Tech'),
('Naga', '202', 'B.Sc'),
('Sumukh', '203', 'B.Com'),
('Vaishnavi', '204', 'B.Tech'),
('Aarya', '205', 'B.Sc');
Frontend&backend: sort.php
<?php
$connect = new mysqli("localhost", "root", "", "student db");
$sort_by = isset($_GET['sort_by']) ? $_GET['sort_by'] : 'name';
$order = isset($ GET['order']) && $ GET['order'] === 'desc' ? 'DESC' : 'ASC';
```

```
// Allow only valid columns to prevent SQL injection
$allowed_columns = ['name', 'roll_no', 'course'];
if (!in array($sort by, $allowed columns)) {
  sort by = 'name';
}
$sql = "SELECT * FROM students ORDER BY $sort by $order";
$result = $connect->query($sql);
?>
<!DOCTYPE html>
<html>
<head>
  <title>Sorted Student Records</title>
  <style>
    table { border-collapse: collapse; width: 60%; margin-top: 20px; }
    th, td { border: 1px solid #333; padding: 8px; text-align: center; }
    select, button { padding: 5px 10px; margin-left: 10px; }
  </style>
</head>
<body>
<h2>Student Record Sorting (Custom Names)</h2>
<form method="GET">
  <label>Sort By:</label>
  <select name="sort by">
    <option value="name" <?= $sort by == 'name' ? 'selected' : " ?>>Name</option>
    <option value="roll no" <?= $sort by == 'roll no' ? 'selected' : " ?>>Roll No</option>
```

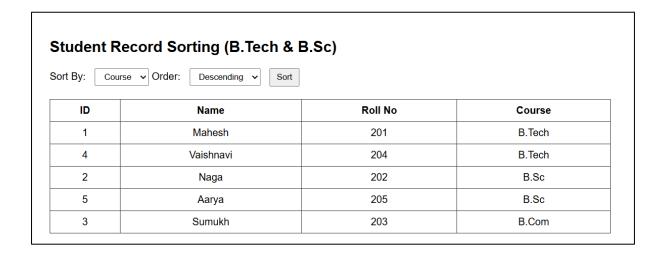
```
<option value="course" <?= $sort_by == 'course' ? 'selected' : " ?>>Course
 </select>
 <label>Order:</label>
 <select name="order">
   <option value="asc" <?= $order == 'ASC' ? 'selected' : " ?>>Ascending
   <option value="desc" <?= $order == 'DESC' ? 'selected' : " ?>>Descending
 </select>
 <button type="submit">Sort</button>
</form>
>
   ID
   Name
   Roll No
   Course
 <?php
 if ($result->num_rows > 0) {
   while ($row = $result->fetch_assoc()) {
     echo "
         {$row['id']}
         {$row['name']}
         {$row['roll no']}
         {$row['course']}
        ";
   }
```

```
} else {
    echo "No data found";
}
?>

</body>
</html>
```

OUTPUT:

Student Record Sorting (B.Tech & B.Sc) Name Sort By: → Order: Ascending Sort **Roll No** Course ID Name 5 Aarya 205 B.Sc 1 Mahesh 201 B.Tech Naga 202 B.Sc 3 Sumukh 203 B.Com 4 Vaishnavi 204 B.Tech



Student Record Sorting (B.Tech & B.Sc)

Sort By: Roll No V Order: Ascending V Sort

ID	Name	Roll No	Course
1	Mahesh	201	B.Tech
2	Naga	202	B.Sc
3	Sumukh	203	B.Com
4	Vaishnavi	204	B.Tech
5	Aarya	205	B.Sc