

# CAP777: WEB DEVELOPMENT USING PHP

## CONTINUOUS ASSESSMENTS (C.A)-2

ST_NAME	:	-	EKHLAKH AHMAD
REG NO.	:	-	12209166
ROLL NO.	:	-	RD2215B58
SECTION	:	-	D2215
GROUP	:	-	2

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**Q.1. You are a school administration, and you want to create a report on the academic performance of your students. This information can be used to identify the schools that are performing the best and to**

**identify the areas where improvement is needed. Webpages contain following information.**

- 1. Find the student with highest GPA in each grade level.**
- 2. Find the student with the lowest GPA in each grade level.**
- 3. Rank of all students**
- 4. Subject wise mark order (High to Low)**
- 5. Those needed remedial class.**

```
<!DOCTYPE html>
<html>
<head>
    <title>Academic Performance Report</title>
</head>
<body>
    <h1>Academic Performance Report</h1>

    <?php
        $students = [
            ["name" => "Ekhlakh", "grade" => 7.3, "gpa"
=> 3.9],
            ["name" => "Ahmad", "grade" => 9, "gpa" =>
4.0],
        ];
```

```
usort($students, function ($a, $b) {
    return $b["gpa"] - $a["gpa"];
});

$highestGPA = [];
$lowestGPA = [];
$remedialNeeded = [];

foreach ($students as $student) {
    $grade = $student["grade"];
    if (!isset($highestGPA[$grade])) {
        $highestGPA[$grade] = $student;
    }
    $lowestGPA[$grade] = $student;
    if ($student["gpa"] < 2.0) {
        $remedialNeeded[] = $student;
    }
}

echo "<h2>Highest GPA Students by Grade:</h2>";
foreach ($highestGPA as $grade => $student) {
    echo "<p>Grade $grade: " . $student["name"] .
" (GPA: " . $student["gpa"] . ")</p>";
}
echo "<h2>Lowest GPA Students by Grade:</h2>";
foreach ($lowestGPA as $grade => $student) {
    echo "<p>Grade $grade: " . $student["name"] .
" (GPA: " . $student["gpa"] . ")</p>";
}
echo "<h2>Students Needing Remedial
Classes:</h2>";
foreach ($remedialNeeded as $student) {
    echo "<p>" . $student["name"] . " (GPA: " .
$student["gpa"] . ")</p>";
}
```

```
}  
echo "<h2>Ranked List of All Students:</h2>";  
echo "<ol>";  
foreach ($students as $student) {  
    echo "<li>" . $student["name"] . " (GPA: " .  
$student["gpa"] . ")</li>";  
}  
echo "</ol>";  
?>  
</body>  
</html>
```

# Academic Performance Report

## Highest GPA Students by Grade:

Grade 7: Ekhlakh (GPA: 3.9)

Grade 9: Ahmad (GPA: 4)

## Lowest GPA Students by Grade:

Grade 7: Ekhlakh (GPA: 3.9)

Grade 9: Ahmad (GPA: 4)

## Students Needing Remedial Classes:

## Ranked List of All Students:

1. Ekhlakh (GPA: 3.9)
2. Ahmad (GPA: 4)

**Q.2. Given an array of numbers, find the first three largest numbers.**

```
<?php
$arr = [4, 5, 7, 2, 98, 67, 45, 34, 23, 21];

for ($i = 0; $i < count($arr); $i++) {
    for ($j = $i + 1; $j < count($arr); $j++) {
        if ($arr[$i] < $arr[$j]) {

            $temp = $arr[$i];
            $arr[$i] = $arr[$j];
            $arr[$j] = $temp;
        }
    }
}

echo "1st Largest number is " . $arr[0] . "<br>";
echo "2nd Largest number is " . $arr[1] . "<br>";
echo "3rd Largest number is " . $arr[2] . "<br>";
?>
```

1st Largest number is 98

2nd Largest number is 67

3rd Largest number is 45