Objectives:

Understanding PHP Compound Data Types: Array

1. Indexed array
   a. Create an array to hold days of the week and print out the names of days.

```
$days = array("Sunday", "Monday", "Tuesday",
"Wednesday","Thursday","Friday","Saturday");

//method 1 to print array values

print $days[0] . " ". $days[1] ." ". $days[2] ." ". $days[3]." ".$days[4] . " ". $days[5] ."
". $days[6] ;

//method 2 to print array values

$arrlength = count($days);
for($x = 0; $x < $arrlength; $x++) {
  echo $days[$x];
echo "<br>";
}

//method 3 to print array values
```

```
foreach($days as $key) {
 echo $key;
 echo "<br>";}
```

b. Amount of money donated by students in the class for “Science Day” are given follows.

12, 34, 45, 34, 48, 35, 15, 87, 40, 68, 34

Use an array to hold these values and find the number of students gave donations using it.

List down amounts in ascending order.

2. Associate array

a. Try the following examples

```
<?php

$age = array("Nimal"=>"35", "Kamal"=>"37", "ama"=>"43");

echo "Nimal is " . $age['Nimal'] . " years old.";

?>

//method 2

<?php

$age = array("Nimal"=>"35", "Kamal"=>"37", "ama"=>"43");
foreach($age as $key => $value) {
echo $key. " is " .$value . " years old";
echo "<br>";
}
?>
```

b. Use an associative array to assign marks for each student according to following table.

Name	**Marks**
Asanka	59
Gayan	86
Namal	47
Ruwan	68
Dinuka	23

Display the marks of each student with their names. Further modify the program to display result of each student such that if mark is greater than 50 displays “Result: Pass” else display “Result: Fail”.

3. Consider the values in the following table; create an array to hold age of each person with their names. Print the age with the name of the person. (Ex: -Ruvini is 42 years old).

Name	Age
Sajani	78
Gayani	56
Menali	85
Ruvini	42

4. Multidimential Array

a.

```
$cars = array (array("Volvo",22,18), array("BMW",15,13),array("Saab",5,2),
array("Land Rover",17,15) );

 // print method 1
```

```
 echo $cars[0][0]." ".$cars[0][1]." ".$cars[0][2];



///print mehod 2

for ($row = 0; $row < 4; $row++) {
for ($col = 0; $col < 3; $col++) {
   echo $cars[$row][$col]." ";
}
 echo "<br>";
}

//method 3

echo  "method 3 <br>";

foreach($cars  as $row) {
foreach($row as $cell) {
echo $cell . " " ;
 }
echo'<br>';
}
```

b. Write down a script to print the numbers from 1 to 9 in 3 × 3 matrixes using multidimensional array.
c. Use multidimensional array to hold following results of the students and display the results of students for each subject.

- Calculate the total value obtained by the student
- Calculate mean value for each subject

Name	Physics	Maths	Chemistry
Dulani	35	67	60
Rada	37	56	43
Rajini	57	62	58