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Experiment No: 04

Write a PHP program for creating and manipulating:

a) Indexed array

b) Associative array

c) Multidimensional array

Resources required:

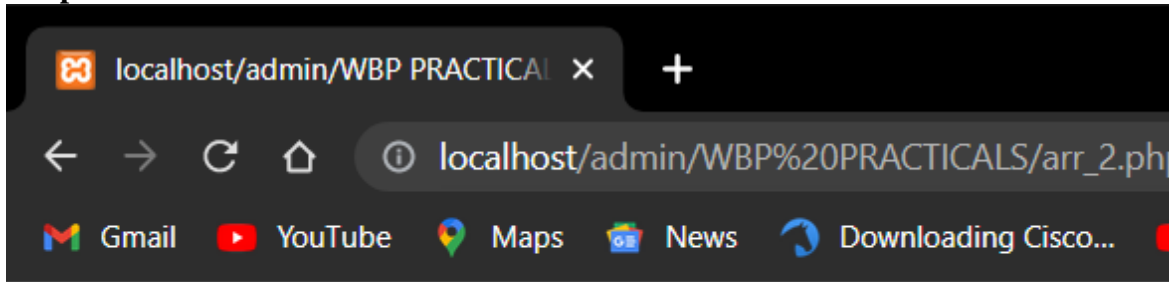| Hardware	Software
Computer System	Any database tools such as XAMPP

Practical Significance:

- Arrays in PHP is a type of data structure that allows to store multiple elements of similar data type under a single variable thereby saving us the effort of creating a different variable for every data.

- An array in PHP is actually an *ordered map*. A map is a type that associates *values* to *keys*.

- The arrays are helpful to create a list of elements of similar types, which can be accessed using their index or key.

Write program for Indexed array, Associative array, Multidimensional array.

```php
<?php

$capital = array("Mumbai" => "Maharashtra","Goa" => "Panaji", "Bihar" => "Patna");

print_r($capital);

echo"<br>";

echo "Mumbai is a capital of " .$capital ["Mumbai"];

?>
```
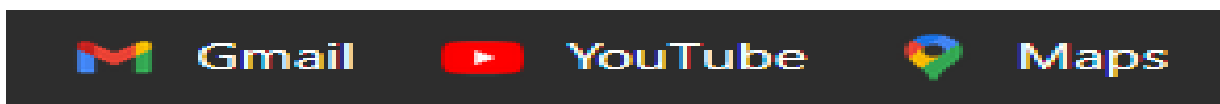
Output

Array ([Mumbai] => Maharashtra [Goa] => Panaji [Bihar] => Patna)
Mumbai is a capital of Maharashtra

Indexed array

Program:

```php
<?php
$course[0]="Computer Engg.";
$course[1]="Information Tech.";
$course[2]="Electronics and Telecomm.";
// Accessing the elements directly
echo $course[2], "<BR>";
echo $course[0], "<BR>";
echo $course[1], "<BR>";
?>
```
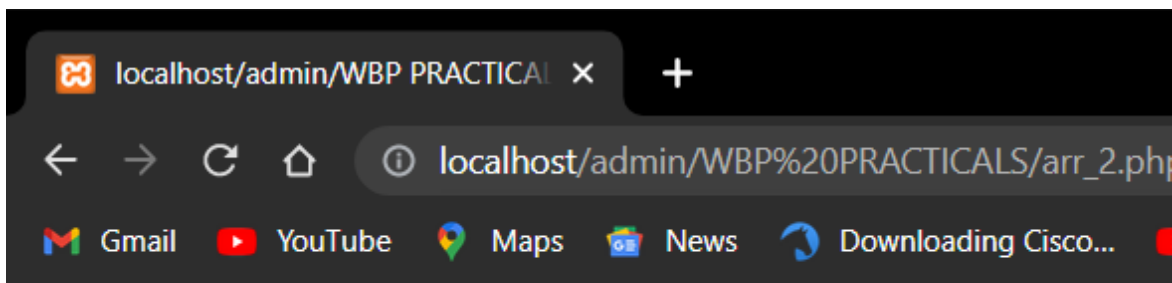
Output:

Electronics and Telecomm.
Computer Engg.
Information Tech.

Associative array

Program:

```php
<?php
$capital = array("Mumbai" => "Maharashtra","Goa" => "Panaji", "Bihar" => "Patna");
print_r($capital);
echo"<br>";
echo "Mumbai is a capital of  " .$capital ["Mumbai"];
?>
```

Output:

Array ([Mumbai] => Maharashtra [Goa] => Panaji [Bihar] => Patna)
Mumbai is a capital of Maharashtra

Program: Information Technology and Computer Technology
(NBA Accredited)
Course: Web Based Application Development with PHP (22619)

Vidyalankar
Polytechnic

Multidimensional array

Program:

```php
<?php
$mobile = array
  (
  array("LG",20,18),
  array("sony",30,13),
  array("Redme",10,2),
  array("Samsung",40,15)
  );
echo $mobile[0][0].": In stock: ".$mobile[0][1].", sold: ".$mobile[0][2].".<br>";
echo $mobile[1][0].": In stock: ".$mobile[1][1].", sold: ".$mobile[1][2].".<br>";
echo $mobile[2][0].": In stock: ".$mobile[2][1].", sold: ".$mobile[2][2].".<br>";
echo $mobile[3][0].": In stock: ".$mobile[3][1].", sold: ".$mobile[3][2].".<br>";
?>
```

Output:

Gmail   YouTube   Maps

LG: In stock: 20, sold: 18.
sony: In stock: 30, sold: 13.
Redme: In stock: 10, sold: 2.
Samsung: In stock: 40, sold: 15.