AIM:
Write a PHP program for the following scenario: Given an array of N integers, and an integer K, find the number of pairs of elements in the array whose sum is equal to K. The values of N, K and array elements must be scanned from the user.
Sample example:
Input: N = 4, K = 6 arr[] = {1, 5, 7, 1}
Output: Number of pairs in the array: 2 Pairs: [1,5],[5,1]

Methodology followed:

```html
<!DOCTYPE html>

<html>

<body>

<h2> Practical 4a</h2>

<form method="post" action="<?php echo $_SERVER['PHP_SELF'];?>">

  Enter the total number: <input type="text" name="n">

  <br>

  Enter the array: <input type="text" name="a">

  <br>

  Enter the target: <input type="number" name="k">

  <br>

  <input type="submit" name="button1">

</form>




<?php


if ($_SERVER["REQUEST_METHOD"] == "POST") {
```

```php
$a=$_REQUEST['a'];

$k=$_REQUEST['k'];

$n=$_REQUEST['n'];

$arr=explode(",",$a);

//print_r($arr);

$ans=0;

$ans1=array();

for($i=0;$i<$n;$i++)

{

    for($j=$i+1;$j<$n;$j++)

    {

        if($arr[$i]+$arr[$j]==$k)

        {

            array_push($ans1,$arr[$i],$arr[$j]);

            $ans++;

        }

    }

}

if($ans!=0)

{echo "<br> Number of pairs in the array: ".$ans;

echo "<br>";

$x=1;

for($i=0;$i<$ans*2;$i+=2)

{

    echo "<br>Pair ".$x.": ".$ans1[$i].",".$ans1[$i+1];

    $x++;
```

```php
        }

      }

      else echo "No pairs found.";

  }

?>



</body>

</html>
```

Output:

Practical 4a

Enter the total number: 4
Enter the array: 1,5,7,1
Enter the target: 6
Submit

Practical 4a

Enter the total number: [ ]
Enter the array: [ ]
Enter the target: [ ]
Submit

Number of pairs in the array: 2

Pair 1: 1,5
Pair 2: 5,1

Practical No. 4B

AIM: Write a PP Code which takes a string (maximum 80 characters terminated by a full stop. Write a PHP program to display and count a total number of duplicate elements in the one-dimensional array. The size of array must be scan from the user. Sample example: Input the number of elements to be stored in the array :5 Input 5 elements in the array: element - 0: 5 element - 1: 1 element - 2: 1 element - 3: 2 element - 4: 2 Expected Output: Total number of duplicate elements found in the array is: 2 Duplicate elements:1,2

Methodology Followed:

```html
<!DOCTYPE html>

<html>

<body>

<h2> Practical 4b</h2>

    <form method="post" action="<?php echo $_SERVER['PHP_SELF']; ?>">

        Enter the total number: <input type="text" name="n">

        <br>

        Enter the array: <input type="text" name="a">

        <br>

        <input type="submit" name="button1">

    </form>
```

```php
<?php

if ($_SERVER["REQUEST_METHOD"] == "POST") {

    $a = $_REQUEST['a'];

    $n = $_REQUEST['n'];

    $arr = explode(",", $a);

    $arr1 = array();

    $arr1 = array_count_values($arr);

    $ans = 0;

    foreach ($arr1 as $key => $value) {

        if ($value != 1)

            $ans++;

    }

    if ($ans != 0) {

        echo "<br> Number of duplicates in the array: " . $ans;

        echo "<br>";

        echo "<br>Duplicates are: ";

        foreach ($arr1 as $key => $value) {

            if ($value != 1)

                echo $key . " ";

        }

    } else echo "No duplicates found.";

}

?>
```

```
</body>
</html>
```

Output:

Practical 4b

Enter the total number: 5
Enter the array: 5,1,1,2,2
Submit

Practical 4b

Enter the total number:
Enter the array:
Submit

Number of duplicates in the array: 2

Duplicates are: 1 2

Practical 4b

Enter the total number: 5
Enter the array: 5,1,4,2,3
Submit

Practical 4b

Enter the total number: [   ]
Enter the array: [   ]
Submit
No duplicates found.

Conclusion:

From this practical, we learnt different types of array functions and where they can be implemented.