

Todquest PHP Tech Round(Solution)

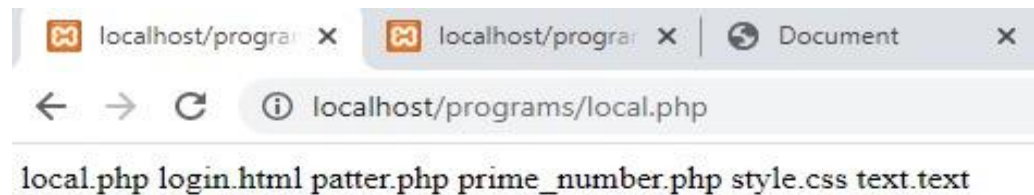
Q-1 Read the local directory and list all file names in it using php.

Sol: I used the "scandir" function in this program to read the contents of a directory and list all the file names in it. The function returns an array containing the names of the files.

`\$dir` is set to the current directory (.) and the "scandir" function is used to get a list of all the files and directories in that directory.

```
<?php
$dir = ".";
$files = scandir($dir);
foreach ($files as $file) {
    if (!is_dir($file)) {
        echo $file . "\n";
    }
}
?>
```

Output:



Q-2 Write a query to find the name (first_name, last name), department ID and department name for all the employees.

Sol: This query uses a JOIN clause to combine information from both the employees and departments tables based on the department_id column. The query then selects the first name, last name, department ID, and department name columns from the resulting joined table. The result of this query will be a table that lists the name, department ID, and department name for all employees.

```
SELECT employees.first_name, employees.last_name, employees.department_id,  
       departments.department_name
```

```
FROM employees
```

```
JOIN departments ON employees.department_id = departments.department_id;
```

Q.3. Design a web page:

Sol. This is the github repository link wher I push all the code reagarding the assignemnt.

<https://github.com/bhuvnesh63/Tech-Assignment>

Q-4 Write a program in php to check whether a number is prime or not?

Sol: This code is used to check if the form has been submitted, and the is_prime function is used to determine if the number entered by the user is prime or not. When the form is submitted, the number is read from the form and passed to the is_prime function, and the result is displayed to the user.

Code:

```
<!DOCTYPE html>

<html>

<head>

<title>Prime Number Checker</title>

</head>

<body>

<?php
    if (isset($_POST['submit'])) {
        // Function to check if a number is prime
        function is_prime($num) {
            if ($num <= 1) {
                return false;
            }
            for ($i = 2; $i < $num; $i++) {
                if ($num % $i == 0) {
                    return false;
                }
            }
            return true;
        }
    }
```

```
}

// Read the number from the form

$num = (int) $_POST['num'];


// Check if the number is prime
if (is_prime($num)) {
    echo $num . " is a prime number.\n";
} else {
    echo $num . " is not a prime number.\n";
}
} else {
?>

<!-- HTML form to get user input -->
<form action="" method="post">
    <label for="num">Enter a number:</label>
    <input type="text" id="num" name="num">
    <input type="submit" name="submit" value="Submit">
</form>

<?php
}

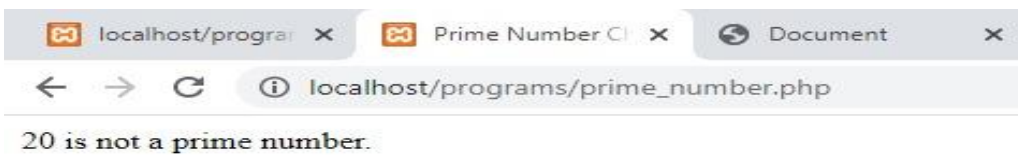
?>

</body>
</html>
```

Output:



A screenshot of a web browser with three tabs: 'localhost/program...', 'Prime Number Cl...', and 'Docume...'. The address bar shows 'localhost/programs/prime_number.php'. Below the address bar, there is a form with the text 'Enter a number:' followed by a text input field containing the number '20' and a 'Submit' button.



A screenshot of a web browser with three tabs: 'localhost/program...', 'Prime Number Cl...', and 'Document...'. The address bar shows 'localhost/programs/prime_number.php'. Below the address bar, the text '20 is not a prime number.' is displayed.

Q-5 Write a program for this pattern ?

```
*  
  
* *  
  
* * *  
  
* * * *  
  
* * *  
  
* *  
  
*
```

Sol: I used two nested for loops to generate the pattern. The outer loop runs 4 times and the inner loop runs from 1 to the current value of the outer loop. The first part of the program generates the upward-pointing triangle, and the second part generates the downward-pointing triangle. The echo "*" statement is used to print a single asterisk followed by a space, and the
 statement is used to create a new line.

Code:

```
<?php  
  
for ($i = 1; $i <= 4; $i++) {  
    for ($j = 1; $j <= $i; $j++) {  
        echo "* ";  
    }  
    echo "<br>";  
}  
  
for ($i = 3; $i >= 1; $i--) {  
    for ($j = 1; $j <= $i; $j++) {  
        echo "* ";  
    }  
}
```

```
}  
echo "<br>";  
}  
?>
```

Output:

