

5.	Basic PHP I
a.	<p>Write a PHP Program to accept a number from the user and print it factorial. <u>Input.html</u></p> <pre> <html> <head> <title>Factorial of a number</title> </head> <body> <form method="post" action="Fact.php"> Enter a number: <input type="text" name="n1">
 <input type="submit" value="Factorial"> </form> </body> </html> <u>Fact.php</u> <?php \$n1=(int)\$_POST['n1']; \$fact=1; for(\$i=1;\$i<=\$n1;\$i++) { \$fact=\$fact*\$i; } echo "Factorial of ".\$n1." is: ".\$fact; ?> </pre>
b.	<p>Write a PHP program to accept a number from the user and print whether it is prime or not. <u>Input.html</u></p> <pre> <html> <head> <title>Prime Number</title> </head> <body> <form method="post" action="checkPrime.php"> Enter a number: <input type="text" name="n1">
 <input type="submit" value="CheckPrime"> </form> </body> </html> <u>checkPrime.php</u> <?php \$n1=(int)\$_POST['n1']; \$flag=0; for(\$i=2;\$i<=\$n1/2;\$i++) </pre>

	<pre> { if(\$n1%\$i==0) { \$flag=1; break; } } if(\$flag==0) echo "Number is prime"; else echo "Number is not prime"; ?> </pre>
6.	Basic PHP II
a.	<p>Write a PHP code to find the greater of 2 numbers. Accept the no. from the user. <u>Input.html</u></p> <pre> <html> <head> <title>Greater of two no.s</title> </head> <body> <form method="post" action="check.php"> 1st Number: <input type="text" name="n1">
 2nd Number: <input type="text" name="n2">
 <input type="submit" value="Check"> </form> </body> </html> </pre> <p><u>check.php</u></p> <pre> <?php \$n1=(int)\$_POST['n1']; \$n2=(int)\$_POST['n2']; if(\$n1>\$n2) echo \$n1." is greater than ".\$n2; else if(\$n2>\$n1) echo \$n2." is greater than ".\$n1; else echo "Both the no.s are equal"; ?> </pre>

b.	<p>Write a PHP program to display the following Binary Pyramid:</p> <pre> 1 0 1 1 0 1 0 1 0 1 </pre> <p><u>Code:</u></p> <pre> <?php for(\$i=0;\$i<4;\$i++) </pre>
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	<pre> { for(\$j=0;\$j<=\$i;\$j++) { if((\$i+\$j)%2==0) echo "1 "; else echo "0 "; } echo "
"; } } ?> </pre>
7.	String Functions and arrays
a.	<p>Write a PHP program to demonstrate different string functions.</p> <p><u>Code:</u></p> <pre> <?php echo strlen("Hello"); echo strchr("Hello world!","world"); echo str_replace("world","Peter","Hello world!"); echo str_word_count("Hello world!"); echo strpos("I love php, I love php too!","php"); echo substr_count("Hello world. The world is nice","world"); echo substr("Hello world",6); echo strtolower("Hello WORLD."); echo strtoupper("Hello WORLD."); echo strcmp("Hello world!","Hello world!"); echo strcasecmp("Hello world!","Hello world!"); </pre> <p>?></p>

b.	<p>Write a PHP program to create one dimensional array.</p> <p>Code:</p> <pre><?php \$cars = array("Volvo", "BMW", "Toyota"); echo "I like " . \$cars[0] . " , " . \$cars[1] . " and " . \$cars[2] . " ."; echo count(\$cars); \$arrlength = count(\$cars); for(\$x = 0; \$x < \$arrlength; \$x++) { echo \$cars[\$x]; echo "
"; } //Associative arrays \$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43"); echo "Peter is " . \$age['Peter'] . " years old."; ?></pre>

8.	PHP and Database
a.	<p>Write a PHP code to create:</p> <ul style="list-style-type: none"> • Create a database College • Create a table Department (Dname, Dno, Number_Of_faculty) <p>Code:</p> <pre><?php \$con=mysql_connect("localhost","root",""); if(!\$con) die('could not connect:'.mysql_error()); if(mysql_query("create database College",\$con)) echo"Database Created successfully"; else echo "Error creating database:".mysql_error(); mysql_select_db("College",\$con); \$query="create table department(dname varchar(50),dno smallint,no_of_faculty smallint)"; if(mysql_query(\$query,\$con)) echo"Table Created successfully"; else echo "Error creating table:".mysql_error(); mysql_close(\$con); ?></pre>

- b. Write a PHP program to create a database named "College". Create a table named "Student" with following fields (sno, sname, percentage). Insert 3 records of your choice. Display the names of the students whose percentage is between 35 to 75 in a tabular format.

Code:

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<html>
<head>
    <title>Database insert and select</title>
</head>
<body>
<?php
    $con=mysql_connect("localhost","root","");
    if(!$con)
        die('could not connect:'.mysql_error());
    if(mysql_query("create database College",$con))
        echo"Database Created successfully";
    else
        echo "Error creating database:".mysql_error();
    mysql_select_db("College",$con);
    $query="create table student(sno smallint,sname varchar(50),percentage
decimal(7,2))";
    if(mysql_query($query,$con))
        echo"Table Created successfully";
    else
        echo "Error creating table:".mysql_error();
    $query1="insert into student values(101,'Allen',78)";
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	<pre> if(mysql_query(\$query1,\$con)) echo"Record 1 inserted successfully"; else echo "Error inserting record 1:".mysql_error(); \$query2="insert into student values(102,'Smith',45)"; if(mysql_query(\$query2,\$con)) echo"Record 2 inserted successfully"; else echo "Error inserting record 2:".mysql_error(); \$query3="insert into student values(103,'Scott',63.2)"; if(mysql_query(\$query3,\$con)) echo"Record 3 inserted successfully"; else echo "Error inserting record 3:".mysql_error(); \$sql="select * from student where percentage>=35 and percentage<=75"; \$result=mysql_query(\$sql,\$con); if(mysql_num_rows(\$result)>0) { echo "<table border='1'><tr><th>Sno</th><th>Sname</th><th>Percentage</th></tr>"; while(\$row=mysql_fetch_assoc(\$result)) { echo "<tr>"; echo "<td>".\$row['sno']. "</td>"; echo "<td>".\$row['sname']. "</td>"; echo "<td>".\$row['percentage']. "</td>"; echo "</tr>"; } echo "</table>"; } else { echo "Table is empty"; } mysql_close(\$con); ?> </body> </html> </pre>
c.	<p>Design a PHP page for authenticating a user.</p> <p><u>Input.html</u></p> <pre> <html> <head> <title>User authentication</title> </head> <body> <form method="post" action="validate.php"> Username: <input type="text" name="t1">
 </pre>

	<pre> Password: <input type="password" name="p1">
 <input type="submit" value="Submit">&nbsp; <input type="reset" value="Clear"> </form> </body> </html> <u>validate.php:</u> <?php \$user=\$_POST['t1']; \$pass=\$_POST['p1']; if(\$user=="abc" && \$pass=="1234") echo "Welcome ".\$user; else echo "Invalid username and password"; ?> </pre>
9.	Email
a.	<p>Write a program to send email with attachment.</p> <p><u>Code:</u></p> <pre> <?php \$to="someone@example.com"; \$subject="test mail"; \$message="Hello! This is simple email"; \$from="someoneElse@example.com" \$header="From:\$from"; mail(\$to,\$subject,\$message,\$header); echo "Email sent"; ?> </pre>
10 .	Sessions and Cookies

a.	<p>Write a program to demonstrate use of sessions and cookies.</p> <p><u>Session code:</u></p> <pre><?php session_start(); if(isset(\$_SESSION['views'])) \$_SESSION[' views '] += 1; else \$_SESSION[' views '] = 1; \$msg = "You have visited this page ". \$_SESSION[' views ']; \$msg .= "in this session"; ?></pre> <p><u>Cookie code (Setting and Retrieving):</u></p> <pre><?php \$cookie_name = "user";</pre>
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	<pre> \$cookie_value = "John Doe"; setcookie(\$cookie_name, \$cookie_value, time() + (86400 * 30), "/"); // 86400 = 1 day ?> <html> <body> <?php if(!isset(\$_COOKIE[\$cookie_name])) { echo "Cookie named '" . \$cookie_name . "' is not set!"; } else { echo "Cookie '" . \$cookie_name . "' is set!
"; echo "Value is: " . \$_COOKIE[\$cookie_name]; } ?> </body> </html></pre>
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