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| a. | <p>Write a PHP Program to accept a number from the user and print it factorial.</p> <p><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.</p> <p><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> |

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| | <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.</p> <p><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> |
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| 7. | String Functions and arrays |
| a. | <p>Write a PHP program to demonstrate different string functions.</p> <p>Code:</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> |
| 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> |
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| 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. | <p>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.</p> <p>Code:</p> <pre><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)";</pre> |

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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> |

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| | <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"; ?> <u>Cookie code (Setting and Retrieving):</u> <?php \$cookie_name = "user"; </pre> |

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$cookie_value = "John Doe";  
setcookie($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!<br>";  
        echo "Value is: " . $_COOKIE[$cookie_name];  
    }  
?>  
</body>  
</html>
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IT Scholar