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



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|  | {  if($n1%$i==0)  {  $flag=1; break;  }  }  if($flag==0)  echo "Number is prime";  else  echo "Number is not prime";  ?> |
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| **6.** | **Basic PHP II** |
| a. | Write a PHP code to find the greater of 2 numbers. Accept the no. from the user.  **Input.html**  <html>  <head>  <title>Greater of two no.s</title>  [</head>](https://e-next.in/)  [<body>](https://e-next.in/)  [<form method="post" action="check.php">](https://e-next.in/)  [1st Number: <input type="text" name="n1"><br>](https://e-next.in/) [2nd Number: <input type="text" name="n2"><br>](https://e-next.in/)  [<input type="submit" value="Check">](https://e-next.in/)  [</form>](https://e-next.in/)  [</body>](https://e-next.in/)  [</html>](https://e-next.in/)  **check.php**  <?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";  ?> |
| b. | Write a PHP program to display the following Binary Pyramid: 1  0 1  1 0 1  0 1 0 1  **Code:**  <?php  for($i=0;$i<4;$i++) |



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|  | {  for($j=0;$j<=$i;$j++)  {  if(($i+$j)%2==0)  echo "1 ";  else  echo "0 ";  }  echo "<br>";  }  ?> |
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| **7.** | **String Functions and arrays** |
| a. | Write a PHP program to demonstrate different string functions.  **Code:**  <?php  echo strlen("Hello");  echo strchr("Hello world!","world");  echo str\_replace("world","Peter","Hello world!"); [echo str\_word\_count("Hello world!");](https://e-next.in/)  [echo strpos("I love php, I love php too!","php");](https://e-next.in/)  [echo substr\_count("Hello world. The world is nice","world");](https://e-next.in/) [echo substr("Hello world",6);](https://e-next.in/)  [echo strtolower("Hello WORLD.");](https://e-next.in/) [echo strtoupper("Hello WORLD.");](https://e-next.in/)  [echo strcmp("Hello world!","Hello world!");](https://e-next.in/) [echo strcasecmp("Hello world!","Hello world!");](https://e-next.in/)  [?>](https://e-next.in/) |
| b. | Write a PHP program to create one dimensional array.  **Code:**  <?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 "<br>";  }  //Associative arrays  $age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43"); echo "Peter is " . $age['Peter'] . " years old.";  ?> |
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| **8.** | **PHP and Database** |
| a. | Write a PHP code to create:   * Create a database College * Create a table Department (Dname, Dno, Number\_Of\_faculty)   **Code:**  <?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,$con))  echo"Table Created successfully";  else  [echo "Error creating table:".mysql\_error();](https://e-next.in/) [mysql\_close($con);](https://e-next.in/)  [?>](https://e-next.in/) |
| [b.](https://e-next.in/) | [Write a PHP program to create a database named “College”. Create a table named “Student”](https://e-next.in/) [with following fields (sno, sname, percentage). Insert 3 records of your choice. Display the](https://e-next.in/) [names of the students whose percentage is between 35 to 75 in a tabular format.](https://e-next.in/)  [**Code:**](https://e-next.in/)  [<html>](https://e-next.in/)  [<head>](https://e-next.in/)  <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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|  | 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>";](https://e-next.in/)  [while($row=mysql\_fetch\_assoc($result))](https://e-next.in/)  [{](https://e-next.in/)  [echo "<tr>";](https://e-next.in/)  [echo "<td>".$row['sno']."</td>";](https://e-next.in/)  [echo "<td>".$row['sname']."</td>";](https://e-next.in/) [echo "<td>".$row['percentage']."</td>";](https://e-next.in/) [echo "</tr>";](https://e-next.in/)  [}](https://e-next.in/)  [echo "</table>";](https://e-next.in/)  }  else  {  echo "Table is empty";  }  mysql\_close($con);  ?>  </body>  </html> |
| c. | Design a PHP page for authenticating a user.  **Input.html**  <html>  <head>  <title>User authentication</title>  </head>  <body>  <form method="post" action="validate.php">  Username: <input type="text" name="t1"><br> |



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|  | Password: <input type="password" name="p1"><br>  <input type="submit" value="Submit">&nbsp;  <input type="reset" value="Clear">  </form>  </body>  </html>  **validate.php:**  <?php  $user=$\_POST['t1'];  $pass=$\_POST['p1']; if($user=="abc" && $pass=="1234")  echo "Welcome ".$user;  else  echo "Invalid username and password";  ?> |
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| **9.** | **Email** |
| a. | Write a program to send email with attachment.  [**Code:**](https://e-next.in/)  [<?php](https://e-next.in/)  [$to="someone@example.com";](https://e-next.in/)  [$subject="test mail";](https://e-next.in/)  [$message="Hello! This is simple email";](https://e-next.in/)  [$from="someoneElse@example.com"](https://e-next.in/)  [$header="From:$from";](https://e-next.in/) [mail($to,$subject,$message,$header);](https://e-next.in/) [echo "Email sent";](https://e-next.in/)  [?>](https://e-next.in/) |
| **10**  **.** | **Sessions and Cookies** |
| a. | Write a program to demonstrate use of sessions and cookies.  **Session code:**  <?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";  ?>  **Cookie code (Setting and Retrieving):**  <?php  $cookie\_name = "user"; |



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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> |

