PHP Handbook

HTML Form

First Name : [   ]

Last Name : [   ]

Address 1 : [   ]

Address 2 : [   ]

Email : [   ]

[SUBMIT]

PHP Form

```
<form>
Code for storing data to mysql table in php

<?php
$_firstname=$_POST["firstname"];
$_lastname=$_POST["lastname"];
$_address1=$_POST["address1"];
$_address2=$_POST["address2"];
$_email=$_POST["email"];
$hostname = 'localhost';

$username = 'root';

$password = '';
$username = 'root';

$password = '';
$songpath="";
$filename="";
$link="";
$count=0;
try {
   $dbh = new PDO("mysql:host=$hostname;dbname=punjabimp3songs", $username, $password);


   $sql = "SELECT * FROM songs where songname like '%" . $songname . "%'";
   foreach ($dbh->query($sql) as $row)
     {

     $songpath=$row["songname"];
     $filename=$row["filename"];
     print("<br>Song Name : " . $songpath);
     $link="<a href='" . $filename . "'>" . "Download" . "</a>";
```

```php
        print("<br>");
        print("<br>");
        print($link);
        print("<br>");
        $count++;
        }
        if($count==0)
        {
           print("No Records Found");
        }
        print("<br><br>");
print("<a href='index.html'>Back to Index</a>");

    $dbh = null;
}
catch(PDOException $e)
    {
    print($e->getMessage());
    }



?>
```

Code for Session Handling

```php
<?php
session_start();
$user=$_SESSION["username"];
print("<p> User Logged in as " . $user)
?>
```

Code for sending email in php

```php
<?php

$to=”raman404@cppcourses.com”;
$from=”gagan404@cppcourses.com”;
$subject=”abcdef”;
$message=”Message 1 “;
$mail($to,$from,$subject,$message);
print(“Mail Sent Successfully”);

?>
```

Code to send email in php

```php
<?php
 $to = "promotion@cppcourses.com";
      $subject = "This is subject";
```

```php
    $message = "<b>This is HTML message.</b>";
    $message .= "<h1>This is headline.</h1>";
$header = "From:raman404@cppcourses.com \r\n";

    $header .= "MIME-Version: 1.0\r\n";
    $header .= "Content-type: text/html\r\n";
mail($to,$subject,$message,$header);
print("Message Sent to " . $to);
print("<br><a href='sendemail.php'>Back to Email Page</a>");
?>
```

Chapter 1
Datatypes, Variables

Data type is a name which stores information for data
Variable is a name to identify the data

program to calculate sum of two numbers

```php
$num1=10;
$num2=20;
$num3=$num1+num2;
print("Sum of two numbers is : " , $num3);
```

program to calculate difference of two numbers

```php
$num1=20;
$num2=10;
$num3=$num1-$num2;
print("Difference between two numbers is " . $num3);
```

program to find area of square

```php
$side=10;
$area=$side*$side;
print("Area of square is " . $area);
```

program to find area of rectangle

```php
$length=30;
$breadth=30;
$area=$length*breadth;
print("Area of Rectangle is " . $area);
```

program to find area of circle

```php
$radius=10;
$area=3.14*$radius*$radius;
print("area of circle is ", $area);
```

program to find volume of box

```
$width=10;
$height=10;
$depth=10;
$volume=$width*$height*$depth;
print("Volume of Box is : ",$volume);
```

program to find simple interest

```
$p=3000;
$r=3;
$t=3;
$si=($p*$r*$t)/100;
print("Simple Interest is " . $si);
```

program to demonstrate if else statement

```
$a=11;
if($a==10)
{
print("value of a is equal to 10");
}
else
{
print("Value of a is not equal to 10");
}
```

program to demonstrate switch statement

```
$a=4;
switch($a)
{
case 1:
print("Monday");
break;
case 2:
print("Tuesday");
break;
case 3:
print("Wednesday");
break;
case 4:
print("Thursday");
break;
case 5:
print("Friday");
break;
case 6:
print("Saturday");
break;
```

```
case 7:
print("Sunday");
break;
default: print("Enter a day between 1 and 7");
break;
}

$temp=100;
if($temp==100)
{
print("It is Boiling Poine of Water");
}
else
{
print("It is not Boiling Point of Water");
}

$age=21;
if($age>=18)
{
print("You are eligible to vote ");
}
else
{
print("You are not eligible to vote");
}
```

for loop

```
$i=1;
for($i<=10;$i++)
{
print($i);
}
```

while loop

```
$i=1;
while($i<=10)
{
print($i);
$i=$i+1;
}
```

do while loop

```
$i=11;
do
{
print($i);
$i=$i+1;
```

```
}while($i<=10);
```

break statement

```
$i=1;
for($i=1;$i<=10;$i++)
{
if($i==5)
{
break;
}
print($i);
}
```

continue statement

```
$i=1;
for($i=1;$i<=10;$i++)
{
if($i==5)
{
continue;
}
print($i);
}
```

break statement in while loop

```
$i=1;
while($i)
{
print($i);
if($i==5)
{
break;
}
$i=$i+1;
}
}
```

```php
<?php
//php program to demonstrate user defined function,create a function to display hello world on the
screen
function display()
{
   print('Hello World');
}
display();
?>
```

```php
<?php
```

```php
//php program to create a function to find factorial of number passed to function as argument
function factorial($a)
{
    $fact=1;
        for($i=1;$i<=$a;$i++)
        {
                $fact=$fact*$i;
        }
        print('factorial of number is ' . $fact);
}
factorial(5);
print('<br>');
factorial(6);
?>


        <?php
//php program to create a function that takes two integer arguments calculates difference between
them
function difference($a,$b)
{
    $diff=$a-$b;
    print('difference between two integers is ' . $diff);
}
difference(10,5);
?>



<?php
//php program to create a function that check whether character passed to it as argument is vowel or
not using switch case statement
function checkvowel($ch)
{
        switch($ch)
        {
        case 'a':
                print('you entered a vowel');
                break;
        case 'e':
                print('you entered a vowel');
                break;
        case 'i':
           print('you entered a vowel');
           break;
        case 'o':
                print('you entered a vowel');
                break;
        case 'u':
                print('you entered a vowel');
                break;
        default:print('please enter a vowel  (a,e,i,o,u)');
        }
}
```

```php
checkvowel('a');
print('<br>');
checkvowel('b');
?>
```

```php
<?php
//php program to create a function to calculate simple interest based on principal amount,rate of
interest
function calcsi($principal,$rate,$time)
{

        $si=($principal*$rate*$time)/100;
        print('simple interest is ' . $si);
}
calcsi(1000,3,2);
print('<br>');
?>
```

```php
<?php
//php program to initialize an array of ten integer elements and display the array
$arr=array(1,34,45,67,78,33,44,23,78,90);
for($i=0;$i<10;$i++)
{
   print($arr[$i]);
   print('<br>');
}
?>
```

```php
<?php
//php program to initialize an array of ten char elements and display the array
$arr=array('a','d','s','i','o','p','y','r','t','e');
for($i=0;$i<10;$i++)
{
   print($arr[$i]);
   print('<br>');
}
?>
```

```php
<?php
//php program to initialize an array of ten string elements and display the array
$arr=array('abcdefd','dddf','dfdgd','igddg','ogdg','pgdg','yggd','rgdf','tgdg','egdg');
for($i=0;$i<10;$i++)
{
   print($arr[$i]);
   print('<br>');
}
?>
```

```php
<?php
//php program to initialize an array of ten integer elements and display the array using while loop
$arr=array(1,34,45,67,78,33,44,23,78,90);
```

```php
$i=0;
while($i<10)
{
   print($arr[$i]);
   print('<br>');
   $i++;
}
?>


<?php
//php program to initialize an array of ten integer elements and display the array using foreach
statement
$arr=array(1,34,45,67,78,33,44,23,78,90);
foreach($arr as $a)
{
   print($a);
   print('<br>');
}
?>


<?php
//php program to demonstrate substr function
$a=  substr("abcdef", 3,2);
print($a);
print('<br>');
$b=substr("abcdef",3);
print($b);
?>


<?php
//php program to demonstrate str_replace function
$a="abcdef";
print("original string is " . $a);
print('<br>');
$b=  str_replace('c', 'x',$a);
print('string after replacing c with x is ');
print('<br>');
print($b);
?>


<?php
//php program to demonstrate class student with getdata and showdata member functions
class student
{
   var $rollno;
   var $name;
   var $clas;
   var $marks;
```

```php
    function getdata()
    {
        $this->rollno=1;
        $this->name="abcdef";
        $this->clas=11;
        $this->marks=90;
    }
    function showdata()
    {
        print('rollno of student is ' . $this->rollno);
        print('<br>');
        print('name of student is ' . $this->name);
        print('<br>');
        print('class of student is ' . $this->clas);
        print('<br>');
        print('marks of student is ' . $this->marks);
        print('<br>');
    }
}
$ob=new student;
$ob->getdata();
$ob->showdata();
?>


<?php
//php program to demonstrate class employee with getdata and showdata member functions
class employee
{
    var $ecode;
    var $ename;
    var $esalary;
    var $edesignation;

    function getdata()
    {
        $this->ecode=1;
        $this->ename="abcdef";
        $this->esalary=10000;
        $this->edesignation='accountant';
    }
    function showdata()
    {
        print('ecode of employee is ' . $this->ecode);
        print('<br>');
        print('ename of employee is ' . $this->ename);
        print('<br>');
        print('salary of employee is ' . $this->esalary);
        print('<br>');
        print('designation of employee is ' . $this->edesignation);
        print('<br>');
    }
```

```php
}
$ob=new employee;
$ob->getdata();
$ob->showdata();
?>
```

```php
<?php
//php program to demonstrate private member function
class abc
{
    private function a()
    {
        print('cannot be called through an object');
    }
    public function b()
    {
        print('can be called through an object');
    }
}
$ob=new abc;
$ob->b();
?>
```

```php
<?php
//php program to connect to mysql database
$hostname = 'localhost';
$username = 'root';

$password = '';

try {
    $dbh = new PDO("mysql:host=$hostname;dbname=students", $username, $password);

    print('Connected to database');
    }
catch(PDOException $e)
    {
    print($e->getMessage());
    }
?>
```

```php
<?php
//php program to close a connection to mysql database
$hostname = 'localhost';
$username = 'root';
$password = '';

try {
    $dbh = new PDO("mysql:host=$hostname;dbname=students", $username, $password);
```

```php
    print('Connected to database');


    $dbh = null;
    }
catch(PDOException $e)
    {
    print($e->getMessage());
    }
?>

        <?php
//php program to insert a record in a mysql database table
$hostname = 'localhost';

$username = 'root';

$password = '';

try {
    $dbh = new PDO("mysql:host=$hostname;dbname=students", $username, $password);

    print('Connected to database<br />');

    $count = $dbh->exec("INSERT INTO student VALUES (3,'abcdfg',11,78)");

    print($count);

    $dbh = null;
    }
catch(PDOException $e)
    {
    print($e->getMessage());
    }
?>

<?php
//php program to display records from a table

$hostname = 'localhost';

$username = 'root';

$password = '';

try {
    $dbh = new PDO("mysql:host=$hostname;dbname=students", $username, $password);

    print 'Connected to database<br />';


    $sql = "SELECT * FROM student";
```

```php
    foreach ($dbh->query($sql) as $row)
      {
      print $row['rollno'] .' - '. $row['name'] .' - '. $row['class'] . ' - '. $row['marks'] .'<br />';
      }


    $dbh = null;
}
catch(PDOException $e)
    {
    print($e->getMessage());
    }
?>


<?php
//php program to update a record in a table

$hostname = 'localhost';

$username = 'root';

$password = '';

try {
    $dbh = new PDO("mysql:host=$hostname;dbname=students", $username, $password);

    echo 'Connected to database<br />';


    $count = $dbh->exec("UPDATE student SET name='abcdef' WHERE rollno=3");

    echo $count;

    $dbh = null;
    }
catch(PDOException $e)
    {
    echo $e->getMessage();
    }
?>


<?php
//php program to demostrate prepared statement

$hostname = 'localhost';

$username = 'root';

$password = '';

try {
```

```php
    $dbh = new PDO("mysql:host=$hostname;dbname=students", $username, $password);

    print('Connected to database<br />');


    $dbh->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);


    $rno = 3;

    $name = 'abcdef';


    $stmt = $dbh->prepare("SELECT * FROM student WHERE rollno = :rno AND name = :name");


    $stmt->bindParam(':rno', $rno, PDO::PARAM_INT);
    $stmt->bindParam(':name', $name, PDO::PARAM_STR, 5);


    $stmt->execute();

    $result = $stmt->fetchAll();

    foreach($result as $row)
        {
        print($row['rollno'].'<br />');
        print($row['name'].'<br />');
        print($row['class'] . '<br />');
        print($row['marks'] . '<br />');
        }


    $dbh = null;
}
catch(PDOException $e)
    {
    print($e->getMessage());
    }
?>


<?php
//php program to demonstrate last insert id to retrieve last added key of the record

$hostname = 'localhost';


$username = 'root';


$password = '';
```

```php
try {
   $dbh = new PDO("mysql:host=$hostname;dbname=students", $username, $password);

   print('Connected to database<br />');


   $dbh->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);


   $dbh->exec("INSERT INTO student(name,class,marks) VALUES ('abcdef',11,89)");

   print($dbh->lastInsertId());

   $dbh = null;
   }
catch(PDOException $e)
   {
   print($e->getMessage());
   }
?>




<?php
//php program to store a variable in session
session_start();
$_SESSION['username']='abcdef';
?>




<?php
//php program to get a session variable
session_start();
$username=$_SESSION['username'];
print('Username is ' . $username);
?>

 <?php
//php program to demonstrate exception handling
try
{
   $a=10/0;
}
catch(Exception $e)
{
   print($e->getMessage());
}
?>
```

```php
<?php
//php program to throw an exception

 function checkNum($number) {
  if($number>1) {
    throw new Exception("Value must be 1 or below");
  }
  return true;
 }


 try {
  checkNum(1);

  print('the number is 1 or below');
 }


 catch(Exception $e) {
 print('Message: ' .$e->getMessage());
 }


?>
```