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APPLICATIONS**



**CSA-CC-3206 : WEB**

**APPLICATION LAB**

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## **1. WRITE INSTALLATION STEPS OF XAMPP**

Here are the steps to install XAMPP on a Windows machine:

### **Step 1: Download XAMPP**

1. Visit the [official XAMPP website](<https://www.apachefriends.org/index.html>).
2. Choose the version of XAMPP based on your operating system (Windows, Linux, or macOS).
3. Click the "Download" button for the latest version.

### **Step 2: Run the Installer**

1. Once the download is complete, locate the downloaded file (e.g., `xampp-windows-x.x.x-installer.exe` for Windows).
2. Double-click the installer to run it.
3. If prompted by User Account Control (UAC), click "Yes" to allow the installer to make changes to your device.

### **Step 3: Select Components**

1. The installer will open a setup wizard.
2. Click "Next" on the initial welcome screen.
3. You'll be asked to select the components you want to install (e.g., Apache, MySQL, PHP, Perl). By default, all components are selected. You can leave them checked or uncheck any components you don't need.
4. Click "Next."

### **Step 4: Choose Installation Folder**

1. Choose the folder where XAMPP should be installed. By default, it installs in `C:\xampp`.
2. Click "Next."

### **Step 5: Language Selection**

1. Select the language for XAMPP's interface (English or your preferred language).
2. Click "Next."

### **Step 6: Begin Installation**

1. Click "Next" to start the installation process.
2. Wait for the installation to complete. This may take a few minutes depending on your system.

### **Step 7: Start the XAMPP Control Panel**

1. Once the installation is complete, check the box to launch the XAMPP Control Panel.
2. Click "Finish."

### **Step 8: Run Apache and MySQL**

1. In the XAMPP Control Panel, you'll see a list of services (Apache, MySQL, FileZilla, etc.).
2. Click the "Start" button next to Apache and MySQL to start the web server and database server.
3. If the services start successfully, the module names will turn green.

### **Step 9: Test the Installation**

1. Open your web browser.

2. Type `http://localhost` or `http://127.0.0.1` in the address bar and hit Enter.
3. If XAMPP is installed correctly, the XAMPP dashboard will appear, confirming a successful setup.

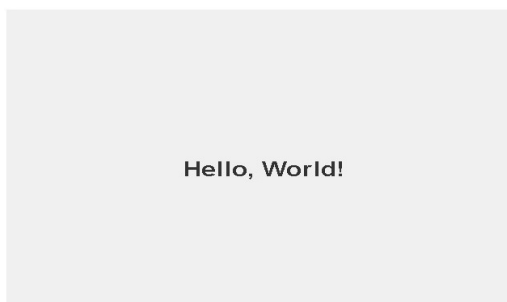
Optional: Configure Services to Start Automatically

1. If you want Apache and MySQL to start automatically when you launch XAMPP, check the "Svc" checkbox next to each service in the Control Panel.

1.

2. **WAP IN PHPTOPRINTHELLOMESSAGEWITHGUI.**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <metacharset="UTF-8">
  <metaname="viewport"content="width=device-width,initial-scale=1.0">
  <title>PHP-Hello,World!</title>
  <style>
    body{
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      background-color: #f0f0f0;
      font-family: Arial,sans-serif;
    }
    h1{
      color: #333;
    }
  </style>
</head>
<body>
  <h1><?php echo 'Hello, World!';?></h1>
</body>
</html>
```



3. **WAPINPHPTOSHOW USEOFDATATYPESINPHPWITHGUI.**

```
<!DOCTYPE html>
<html lang="en">
<head>
```

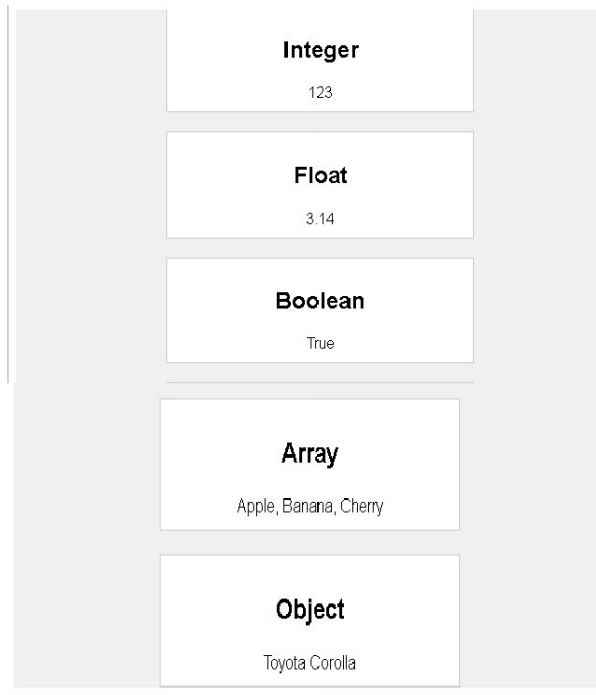
```
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width,initial-scale=1.0">
<title>PHPDataTypes</title>
<style>
```

```

body{
    display:flex;
    flex-direction:column;
    align-items: center;
    justify-content:center;
    height: 100vh;
    background-color: #f0f0f0;
    font-family:Arial,sans-serif;
}
.datatype {
    margin: 10px;
    padding:10px;
    border: 1px solid #ccc;
    background-color:#fff;
    width: 300px;
    text-align:center;
}
</style>
</head>
<body>
    <divclass="datatype">
        <h2>String</h2>
        <?php
            $string="Hello,World!";
            echo $string;
        ?>
    </div>
    <divclass="datatype">
        <h2>Integer</h2>
        <?php
            $integer=123;
            echo $integer;
        ?>
    </div>
    <divclass="datatype">
        <h2>Float</h2>
        <?php
            $float=3.14;
            echo $float;
        ?>
    </div>
    <divclass="datatype">

```

```
<h2>Boolean</h2>
<?php
    $boolean= true;
    echo$boolean?'True':'False';
?>
</div>
<divclass="datatype">
    <h2>Array</h2>
    <?php
        $array=array("Apple","Banana","Cherry"); echo
        implode(" ", $array);
    ?>
</div>
<divclass="datatype">
    <h2>Object</h2>
    <?php
        class Car
        {public$make
          ;
          public$model;
          publicfunctionconstruct($make,$model){
              $this->make=$make;
              $this->model=$model;
          }
        }
        $car = new Car("Toyota", "Corolla");
        echo$car->make." ".$car->model;
    ?>
</div>
</body>
</html>
```



#### 4. WAP IN PHOTOSHOP TO SHOW THE USE OF OPERATORS IN PHP WITH GUI.

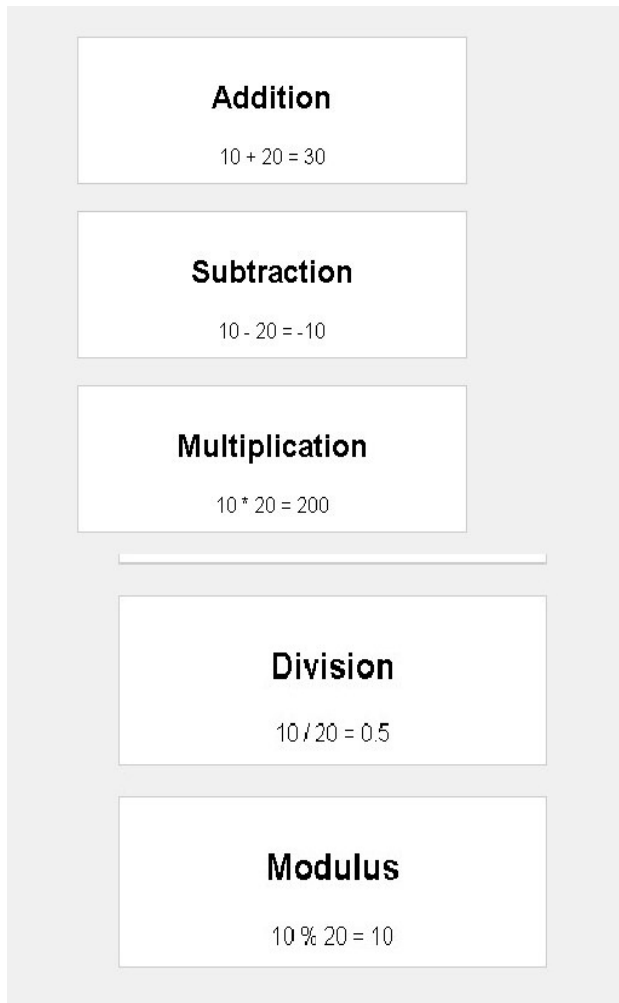
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,initial-scale=1.0">
  <title>PHP Operators</title>
  <style>
    body{
      display: flex;
      flex-direction: column;
      align-items: center;
      justify-content: center;
      height: 150vh;
      background-color: #f0f0f0;
      font-family: Arial, sans-serif;
    }
    .operator {
      margin: 10px;
      padding: 10px;
      border: 1px solid #ccc;
      background-color: #fff;
      width: 300px;
```

```
        text-align:center;
    }
</style>
</head>
<body>
    <divclass="operator">
        <h2>Addition</h2>
        <?php
            $a= 10;
            $b =20;
            $sum=$a+$b;
            echo"$a +$b = $sum";
        ?>
    </div>
    <divclass="operator">
        <h2>Subtraction</h2>
        <?php
            $sub=$a -$b;
            echo"$a -$b =$sub";
        ?>
    </div>
    <divclass="operator">
        <h2>Multiplication</h2>
        <?php
            $mul=$a* $b;
            echo"$a *$b = $mul";
        ?>
    </div>
    <divclass="operator">
        <h2>Division</h2>
        <?php
            $div=$a/$b;
            echo"$a /$b= $div";
        ?>
    </div>
    <divclass="operator">
        <h2>Modulus</h2>
        <?php
            $mod=$a%$b;
            echo"$a %$b= $mod";
        ?>
    </div>
```



</body>

</html>



5. WAP IN PHP TO SHOW USE OF IF ELSE STATEMENT WITH GUI.

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>PHP If Else Statement</title>
```

```
</head>
```

```
  <body>
```

```
    <div>
```

```
      <div>
```

```
        <div>
```

```
          <div>
```

```
            <div>
```

```
              <div>
```

```
                <div>
```

```
                  <div>
```

```
                    <div>
```

```
                      <div>
```

```
                        <div>
```

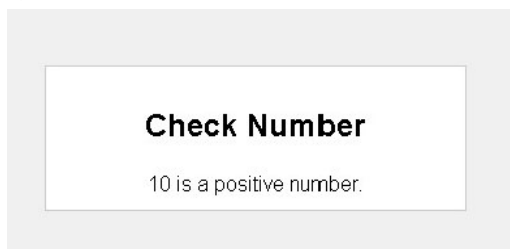
```
                          <div>
```

```
                            <div>
```

```

        height:100vh;
        background-color: #f0f0f0;
        font-family:Arial,sans-serif;
    }
    .result{
        margin: 10px;
        padding:
        10px;border:1pxsolid
        #ccc;
        background-color:#fff;
        width: 300px;
        text-align:center;
    }
</style>
</head>
<body>
    <divclass="result">
        <h2>CheckNumber</h2>
        <?php
            $number=10;//Changethisnumbertotestdifferentconditions if
            ($number > 0) {
                echo"$numberisapostive number.";
            }elseif($number<0) {
                echo"$numberis anegativenumber.";
            }else{
                echo"$numberis zero.";
            }
        ?>
    </div>
</body>
</html>

```



#### 6. WAP IN PHPTO SHOW USE OF SWITCH STATEMENT WITH GUI.

```

<!DOCTYPE html>
<html lang="en">
<head>

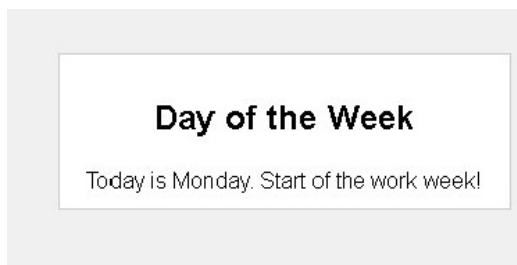
```



```

        echo "Today is Friday. Weekend is near!"; break;
    case "Saturday":
        echo "Today is Saturday. Enjoy your weekend!";
        break;
    case "Sunday":
        echo "Today is Sunday. Relax and recharge!"; break;
    default:
        echo "Unknown day!"; break;
    }
    ?>
</div>
</body>
</html>

```



## 7. WAP IN PHP TO SHOW USE OF WHILE LOOP WITH GUI.

```

<!DOCTYPE html>
<html>
<head>
    <title>WhileLoopExample</title>
    <style>
        body{
            font-family: Arial, sans-serif;
            text-align: center;
            margin-top: 50px;
        }
        .number{
            font-size: 24px;
            margin: 10px;
        }
    </style>
</head>
<body>

```

```
<h1>Numbersfrom1to 10</h1>
<?php
$count= 1;
while($count<=10){
    echo"<divclass='number'>$count</div>";
    $count++;
}
?>
</body>
</html>
```

## Numbers from 1 to 10

1  
2  
3  
4  
5  
6  
7  
8  
9  
10

---

### 8. WAPIN PHPTOSHOWUSEOFDOWHILELOOPWITHGUI.

```
<!DOCTYPE html>
<html>
<head>
    <title>DoWhileLoopExample</title>
    <style>
        body{
            font-family:Arial,sans-serif;
            text-align: center;
            margin-top:50px;
        }
        .number{
            font-size:24px;
            margin: 10px;
        }
    </style>
```

```

</head>
<body>
  <h1>Numbersfrom1to 10</h1>
  <?php
    $count=1; do
    {
      echo"<divclass='number'>$count</div>";
      $count++;
    }while($count<=10);
  ?>
</body>
</html>

```

## Numbers from 1 to 10

1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10

---

### 9. WAP IN PHTOSHOWUSEOFFORLOOPWITHGUI.

```

<!DOCTYPE html>
<html>
<head>
  <title>ForLoopExample</title>
  <style>
    body{
      font-family:Arial,sans-serif;
      text-align: center;
      margin-top:50px;
    }
    .number{
      font-size:24px;
      margin: 10px;
    }
  
```

```
</style>
</head>
<body>
  <h1>Numbersfrom1to 10</h1>
  <?php
    for ($count = 1; $count <= 10; $count++) {
      echo"<divclass='number'>$count</div>";
    }
  ?>
</body>
</html>
```

## Numbers from 1 to 10

1  
2  
3  
4  
5  
6  
7  
8  
9  
10

### 10. WAP IN PHPTOSHOWUSEOFFOREACHLOOPWITH GUI.

```
<!DOCTYPE html>
<html>
<head>
  <title>ForeachLoopExample</title>
  <style>
    body{
      font-family:Arial,sans-serif;
      text-align: center;
      margin-top:50px;
    }
    .color{
      font-size:24px;
```

```

        margin:10px;
    }
</style>
</head>
<body>
    <h1>ListofColors</h1>
    <?php
    $colors=array("Red","Green","Blue","Yellow","Purple");
    foreach ($colors as $color) {
        echo"<divclass='color'>$color</div>";
    }
    ?>
</body>
</html>

```

## List of Colors

Red  
 Green  
 Blue  
 Yellow  
 Purple

### **11. WAP IN PHPTOCHECKEVEN ORODDNUMBERWITH GUI.**

```

<!DOCTYPE html>
<html>
<head>
    <title>EvenorOddNumber Checker</title>
    <style>
        body{
            font-family:Arial,sans-serif;
            text-align: center;
            margin-top:50px;
        }
        .result{
            font-size:24px;
            margin: 10px;
        }
    </style>
</head>

```



```

<body>
  <h1>CheckEvenorOdd Number</h1>
  <formmethod="post"onsubmit="returncheckNumber()">
    <inputtype="number"id="number"name="number"required>
    <inputtype="submit"value="Check">
  </form>
  <script>
    functioncheckNumber(){
      varnumber=document.getElementById("number").value; if
      (number % 2 == 0) {
        alert(number+"isanEvennumber.");
      }else{
        alert(number+"isanOddnumber.");
      }
      returnfalse;//Preventformsubmission
    }
  </script>
</body>
</html>

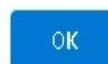
```

## Check Even or Odd Number

An embedded page at [try.w3schools.com](https://www.w3schools.com) says

173 is an Odd number.



### 12. WAP IN PHPTOCHECKPRIMENUMBERORNOTWITH GUI.

```

<!DOCTYPE html>
<html>
<head>
  <title>PrimeNumberChecker</title>
  <style>
    body{
      font-family:Arial,sans-serif;
      text-align: center;

```

```

        margin-top:50px;
    }
    .result{
        font-size:24px;
        margin: 10px;
    }
</style>
</head>
<body>
    <h1>CheckPrimeNumber</h1>
    <formonsubmit="returncheckPrime()">
        <inputtype="number"id="number"name="number"required>
        <inputtype="submit"value="Check">
    </form>
    <script>
        functionisPrime(number){ if
            (number <= 1) {
                return false;
            }
            for(leti=2;i<=Math.sqrt(number);i++){ if
                (number % i === 0) {
                    return false;
                }
            }
            returntrue;
        }

        functioncheckPrime(){
            constnumber=document.getElementById("number").value; if
            (isPrime(number)) {
                alert(number+" isaPrime number.");
            }else{
                alert(number+" isnotaPrimenumbers.");
            }
            returnfalse;//Preventformsubmission
        }
    </script>
</body>
</html>

```

# Check Prime Number

---

An embedded page at [try.w3schools.com](http://try.w3schools.com) says

173 is a Prime number.

OK

## 13. WAP IN PHP TO FIND FACTORIAL OF A NUMBER WITH GUI.

```
<!DOCTYPE html>
<html>
<head>
  <title>FactorialCalculator</title>
  <style>
    body{
      font-family:Arial,sans-serif;
      text-align: center;
      margin-top:50px;
    }
    .result{
      font-size:24px;
      margin: 10px;
    }
  </style>
</head>
<body>
  <h1>FactorialCalculator</h1>
  <form onsubmit="return calculateFactorial()">
    <input type="number" id="number" name="number" required>
    <input type="submit" value="Calculate">
  </form>
  <script>
    function factorial(number){ if
      (number <= 1) {
```

```

        return 1;
    }else{
        return number*factorial(number-1);
    }
}

function calculateFactorial(){
    const number=document.getElementById("number").value;
    const result = factorial(number);
    alert("Factorial of "+number+" is "+result); return
    false; // Prevent form submission
}
</script>
</body>
</html>

```

## Factorial Calculator

17

An embedded page at try.w3schools.com says

Factorial of 17 is 355687428096000

OK

### 14. WAP IN PHP TO CHECK STRONG NUMBER OR NOT WITH GUI.

```

<!DOCTYPE html>
<html>
<head>
    <title>StrongNumberChecker</title>
    <style>
        body{
            font-family:Arial,sans-serif;
            text-align: center;
            margin-top:50px;
        }
        .result{

```

```

        font-size:24px;
        margin: 10px;
    }
</style>
</head>
<body>
    <h1>CheckStrongNumber</h1>
    <form onsubmit="return checkStrongNumber()">
        <input type="number" id="number" name="number" required>
        <input type="submit" value="Check">
    </form>
    <script>
        function factorial(num){
            if(num===0 || num===1){
                return 1;
            }else{
                return num*factorial(num-1);
            }
        }

        function isStrongNumber(num){
            let sum = 0;
            let temp = num;
            while(temp>0){
                let digit = temp % 10;
                sum+=factorial(digit);
                temp=Math.floor(temp/10);
            }
            return sum===num;
        }

        function checkStrongNumber() {
            const number=parseInt(document.getElementById("number").value); if
            (isStrongNumber(number)) {
                alert(number+" is a Strong number.");
            }else{
                alert(number+" is not a Strong number.");
            }
            return false;//Prevent form submission
        }
    </script>
</body>

```

</html>

## Check Strong Number

An embedded page at [try.w3schools.com](http://try.w3schools.com) says

145 is a Strong number.



### 15. WAP IN PHPTOCHECKPALINDROMENUMBERORNOTWITHGUI.

```
<!DOCTYPE html>
<html>
<head>
  <title>PalindromeNumberChecker</title>
  <style>
    body{
      font-family:Arial,sans-serif;
      text-align: center;
      margin-top:50px;
    }
    .result{
      font-size:24px;
      margin: 10px;
    }
  </style>
</head>
<body>
  <h1>CheckPalindromeNumber</h1>
  <formonsubmit="returncheckPalindrome()">
    <inputtype="number"id="number"name="number"required>
    <inputtype="submit"value="Check">
  </form>
  <script>
    function isPalindrome(number) {
      constoriginalNumber=number; let
      reversedNumber = 0;
```

```

while(number>0) {
    constdigit=number% 10;
    reversedNumber=reversedNumber*10+digit; number
    = Math.floor(number / 10);
}
returnoriginalNumber===reversedNumber;
}

functioncheckPalindrome(){
    constnumber=parseInt(document.getElementById("number").value); if
    (isPalindrome(number)) {
        alert(number+"isaPalindrome number.");
    }else{
        alert(number+"isnotaPalindrome number.");
    }
    returnfalse;//Preventformsubmission
}
</script>
</body>
</html>

```

## Check Palindrome Number

An embedded page at [try.w3schools.com](https://try.w3schools.com) says

14541 is a Palindrome number.

OK

### 16. WAPIN PHPTOSHOWUSERDEFINEDFUNCTIONWITHGUI.

```

<!DOCTYPE html>
<html>
<head>
    <title>User-DefinedFunctionExample</title>
</head>
<body>

```

```

<h2>EnterYourName</h2>
<formonsubmit="returngreetUser()">
  <label for="name">Name:</label>
  <inputtype="text"id="name"name="name"required>
  <inputtype="submit"value="Submit">
</form>

<script>
  functiongreetUser(){
    constname=document.getElementById("name").value;
    alert("Hello, " + name + "! Welcome to our website.");
    return false; // Prevent form submission
  }
</script>
</body>
</html>

```

## Enter Your Name

Name:

---

**An embedded page at try.w3schools.com says**

Hello, Sakshi Pandey! Welcome to our website.



### 17. WAPIN PHPTOSHOWSET()FUNCTIONANDUNSET()FUNCTIONWITHGUI.

```

<!DOCTYPE html>
<html>
<head>
  <title>SetandUnsetExample</title>
</head>
<body>
  <h2>SetandUnsetSessionVariables</h2>
  <formonsubmit="returnhandleFormSubmit(event)">
    <label for="name">Name:</label>
    <inputtype="text"id="name"name="name"required>
    <inputtype="submit"name="set"value="Set">

```



```

        <input type="submit" name="unset" value="Unset">
    </form>

    <script>
        function handleFormSubmit(event) {
            event.preventDefault();//Prevent form submission

            const name = document.getElementById("name").value;
            const action = event.submitter.name;

            if (action === "set") {
                alert("Session variable 'name' is set to: " + name);
            } else if (action === "unset") {
                alert("Session variable 'name' is unset.");
            }
        }
    </script>
</body>
</html>

```

## Set and Unset Session Variables

Name:

---

**An embedded page at try.w3schools.com says**

Session variable 'name' is set to: Sakshi Pandey

OK

---

**An embedded page at try.w3schools.com says**

Session variable 'name' is unset.

OK

### 18. WAP IN PHP TO REVERSE STRING USING SIMPLE FUNCTION AND USING PARAMETRIZED FUNCTION WITH GUI.

```
<!DOCTYPE html>
```

```

<html>
<head>
  <title>ReverseStringExample</title>
</head>
<body>
  <h2>ReverseString</h2>
  <formonsubmit="returnhandleFormSubmit(event)">
    <labelfor="inputString">EnteraString:</label>
    <inputtype="text"id="inputString"name="inputString"required>
    <inputtype="submit"name="simpleReverse"value="SimpleReverse">
    <inputtype="submit"name="paramReverse"value="ParameterizedReverse">
  </form>

  <script>
    functionsimpleReverse(str){
      returnstr.split("").reverse().join("");
    }

    functionparamReverse(str){
      let reversed = "";
      for(leti=str.length-1;i>=0;i--){ reversed +=
        str[i];
      }
      returnreversed;
    }

    function handleFormSubmit(event) {
      event.preventDefault();//Preventformsubmission

      constinputString=document.getElementById("inputString").value;
      const action = event.submitter.name;
      letresult;

      if (action === "simpleReverse")
        {result=simpleReverse(inputString);
        alert("ReversedString(SimpleFunction):"+ result);
      }elseif(action==="paramReverse"){
        result=paramReverse(inputString);
        alert("ReversedString(ParameterizedFunction):"+result);
      }
    }
  </script>

```

</body>

</html>

## Reverse a String

Enter a String:

**An embedded page at try.w3schools.com says**

Reversed String (Simple Function): olleh

OK

**An embedded page at try.w3schools.com says**

Reversed String (Parameterized Function): olleh

OK

### 19. WAP IN PHPTOSHOWUSEOFSTRINGFUNCTIONSWITHGUI.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>StringFunctionsExample</title>
```

```
  <style>
```

```
    body{
```

```
      font-family:Arial,sans-serif;
```

```
      text-align: center;
```

```
      margin-top:50px;
```

```
    }
```

```
  </style>
```

```
</head>
```

```
<body>
```

```
  <h2>StringFunctionsExample</h2>
```

```
  <formonsubmit="returnhandleFormSubmit(event)">
```

```
    <labelfor="inputString">EnteraString:</label>
```

```
    <inputtype="text" id="inputString" name="inputString" required>
```

```
    <inputtype="submit" name="strlen" value="StringLength">
```

```
    <inputtype="submit" name="strrev" value="ReverseString">
```

```
    <inputtype="submit" name="strtoupper" value="UppercaseString">
```

```

</form>

<script>
function handleFormSubmit(event) {
    event.preventDefault();//Preventformsubmission

    constinputString=document.getElementById("inputString").value;
    const action = event.submitter.name;
    letresult;

    if(action==="strlen"){
        result="Lengthofthestring:"+inputString.length;
    }elseif(action==="strrev") {
        result="Reversedstring:"+inputString.split("").reverse().join("");
    }elseif(action==="strtoupper") {
        result="Uppercasestring:" +inputString.toUpperCase();
    }

    alert(result);
}
</script>
</body>
</html>

```

## String Functions Example

Enter a String:

**An embedded page at [try.w3schools.com](https://try.w3schools.com) says**

Length of the string: 15

OK

**An embedded page at try.w3schools.com says**

Reversed string: aidnl ym evol l

OK

**An embedded page at try.w3schools.com says**

Uppercase string: I LOVE MY INDIA

OK

## 20. WAPINPHPTOCREATECONSTRUCTORANDINITIALIZEA OBJECTOFCLASSBYUSINGOBJECTORIENTED FUNCTION WITH GUI.

```
<!DOCTYPE html>
<html>
<head>
  <title>PHPOOPExample</title>
  <script>
    function showAlert(message){
      alert(message);
    }
  </script>
</head>
<body>
  <h2>EnterUserDetails</h2>
  <form id="userForm" onsubmit="return false;">
    Name: <input type="text" id="name" required><br><br>
    Email:<input type="email" id="email" required><br><br>
    <input type="button" value="Submit" onclick="createUser()">
  </form>

  <script>
    function createUser(){
      var name=document.getElementById('name').value;
      var email =document.getElementById('email').value;

      //Create a User object
      var user = new User(name, email);
      var userDetails=user.displayUser();
    }
  </script>
</body>
</html>
```

```

        //Showtheuserdetailsinanalertbox
        showAlert(userDetails);
    }

    //Userclasdefinition
    class User {
        constructor(name,email){
            this.name = name;
            this.email = email;
        }

        displayUser(){
            return"Name:"+ this.name+"\nEmail:"+this.email;
        }
    }
</script>
</body>
</html>

```

## Enter User Details

Name:

Email:

**An embedded page at try.w3schools.com says**

Name: Sakshi Pandey\nEmail: sakshipandey0902@gmail.com

### 21. WAP INPHPTOINHERITMEMBERSOFASUPERCLASSINSUBCLASSWITHGUI.

```

<!DOCTYPE html>
<html>
<head>
    <title>PHPInheritanceExample</title>
    <script>
        functionshowAlert(message){
            alert(message);

```

```

    }
</script>
</head>
<body>
    <h2>EnterAnimalDetails</h2>
    <formid="animalForm"onsubmit="returnfalse;">
        Name: <input type="text" id="name" required><br><br>
        Sound:<inputtype="text" id="sound"required><br><br>
        <inputtype="button" value="Submit"onclick="createAnimal()">
    </form>

    <script>
        functioncreateAnimal(){
            var name = document.getElementById('name').value;
            varsound=document.getElementById('sound').value;

            //CreateaDogobject
            vardog=newDog(name,sound);
            varanimalDetails=dog.displayAnimal();

            //Showtheanimaldetailsinanalertbox
            showAlert(animalDetails);
        }

        //Animalclassdefinition(supercass)
        class Animal {
            constructor(name,sound){
                this.name = name;
                this.sound = sound;
            }

            displayAnimal(){
                return"Animal:"+this.name+"\\nSound:"+this.sound;
            }
        }

        //Dogclassdefinition(subclass)
        class Dog extends Animal {
            constructor(name,sound){
                super(name,sound);// Calltheparentclass constructor
            }

```

```

        displayAnimal(){
            return"Animal:"+ this.name+"\\nSound:"+this.sound;
        }
    }
</script>
</body>
</html>

```

## Enter Animal Details

Name:

Sound:

**An embedded page at [try.w3schools.com](http://try.w3schools.com) says**

Animal: Dog\\nSound: Bark

OK

## 22. WAP IN PHP TO SHOW USES OF NAMESPACES WITH GUI.

```

<!DOCTYPE html>
<html>
<head>
    <title>PHPNamespaces Example</title>
    <script>
        function showAlert(message){
            alert(message);
        }
    </script>
</head>
<body>
    <h2>EnterProductDetails</h2>
    <form id="productForm" onsubmit="return false;">
        Product Name: <input type="text" id="productName" required><br><br>
        Product Price:<input type="number" id="productPrice" required><br><br>
        <input type="button" value="Submit" onclick="createProduct()">
    </form>

    <script>

```



```

function createProduct(){
    var name=document.getElementById('productName').value; var
    price = document.getElementById('productPrice').value;

    //Create a Product object
    var product=new Store.Product(name,price);
    var productDetails= product.displayProduct();

    //Show the product details in an alert box
    showAlert(productDetails);
}

//Define the Store namespace var
Store = Store || {};

//Product class definition within the Store namespace Store.Product =
class {
    constructor(name,price){
        this.name = name;
        this.price = price;
    }

    displayProduct(){
        return "Product Name:"+this.name+"\\nProduct Price:"+ this.price;
    }
};
</script>
</body>
</html>

```

## Enter Product Details

Product Name:

Product Price:

An embedded page at [try.w3schools.com](http://try.w3schools.com) says

Product Name: Sugar  
Product Price: 120

### 23. WAPIN PHPTOIMPLEMENTCALCULATORWITHGUI.

```
<!DOCTYPE html>
<html>
<head>
  <title>PHPCalculator</title>
  <style>
    .calculator {
      border:1pxsolid#ccc;
      padding: 20px;
      width: 200px;
      margin:0auto;
    }
    .calculatorinput[type="text"]{
      width: 100%;
      margin-bottom:10px;
      padding: 5px;
    }
    .calculatorinput[type="button"]{
      width: 48%;
      padding:5px;
      margin: 1%;
    }
  </style>
  <script>
    functioncalculate(){
      varnum1= parseFloat(document.getElementById('num1').value);
```

```

var num2 = parseFloat(document.getElementById('num2').value); var
operator = document.getElementById('operator').value;
var result;

if (operator === '+') {
    result = num1 + num2;
} else if (operator === '-') {
    result = num1 - num2;
} else if (operator === '*') {
    result = num1 * num2;
} else if (operator === '/') {
    result = num1 / num2;
}

document.getElementById('result').value = result;
}
</script>
</head>
<body>
<div class="calculator">
<h2>Simple Calculator</h2>
<form onsubmit="return false;">
    <input type="text" id="num1" placeholder="Enter first number" required><br>
    <input type="text" id="num2" placeholder="Enter second number" required><br>
    <select id="operator" required>
        <option value="+">+</option>
        <option value="-">-</option>
        <option value="*">*</option>
        <option value="/">/</option>
    </select><br><br>
    <input type="button" value="Calculate" onclick="calculate()">
    <input type="text" id="result" placeholder="Result" readonly><br>
</form>
</div>
</body>
</html>

```

## Simple Calculator

+

▼

#### 24. WAPIN PHPTOCALCULATESIMPLEINTERESTWITHGUI.

```

<!DOCTYPE html>
<html>
<head>
  <title>SimpleInterestCalculator</title>
  <style>
    .calculator {
      border:1pxsolid#ccc;
      padding: 20px;
      width: 300px;
      margin:0auto;
    }
    .calculatorinput[type="text"],.calculatorinput[type="number"]{
      width: 100%;
      margin-bottom:10px;
      padding: 5px;
    }
    .calculatorinput[type="button"]{
      width: 100%;
      padding:5px;
    }
  </style>
  <script>
    functioncalculateInterest() {

```

```

        var principal = parseFloat(document.getElementById('principal').value);
        var rate = parseFloat(document.getElementById('rate').value);
        var time = parseFloat(document.getElementById('time').value); var
        interest = (principal * rate * time) / 100;

        document.getElementById('result').value=interest;
    }
</script>
</head>
<body>
    <div class="calculator">
        <h2>Simple Interest Calculator</h2>
        <form onsubmit="return false;">
            Principal Amount:<input type="number" id="principal" placeholder="Enter principal
amount" required><br>
            Rate of Interest:<input type="number" id="rate" placeholder="Enter rate of interest" required
><br>
            Time Period (years):<input type="number" id="time" placeholder="Enter time period in
years" required><br>
            <input type="button" value="Calculate" onclick="calculateInterest()">
            <input type="text" id="result" placeholder="Simple Interest" readonly><br>
        </form>
    </div>
</body>
</html>

```

## Simple Interest Calculator

Principal Amount:

Rate of Interest:

Time Period (years):

Calculate

**25. WAP IN PHP TO CALCULATE COMPOUND INTEREST WITH GUI.**

```

<!DOCTYPE html>
<html>
<head>
<title>CompoundInterestCalculator</title>
<style>
.calculator {
border:1px solid #ccc;
padding: 20px;
width: 300px;
margin:0 auto;
}
.calculator input[type="text"],.calculator input[type="number"]{
width: 100%;
margin-bottom:10px;
padding: 5px;
}
.calculator input[type="button"]{
width: 100%;
padding:5px;
}
</style>
<script>

```

```

function calculateCompoundInterest(){
    var principal = parseFloat(document.getElementById('principal').value);
    var rate = parseFloat(document.getElementById('rate').value) / 100;
    var time = parseFloat(document.getElementById('time').value);
    var frequency = parseFloat(document.getElementById('frequency').value);
    var amount = principal * Math.pow((1 + rate / frequency), (frequency * time));
    var interest = amount - principal;

    document.getElementById('result').value = interest.toFixed(2);
}
</script>
</head>
<body>
    <div class="calculator">
        <h2>Compound Interest Calculator</h2>
        <form onsubmit="return false;">
            Principal Amount: <input type="number" id="principal" placeholder="Enter principal amount" required><br>
            Rate of Interest: <input type="number" id="rate" placeholder="Enter rate of interest" required><br>
            Time Period (years): <input type="number" id="time" placeholder="Enter time period in years" required><br>
            Compounding Frequency (times per year): <input type="number" id="frequency" placeholder="Enter compounding frequency" required><br>
            <input type="button" value="Calculate" onclick="calculateCompoundInterest()">
            <input type="text" id="result" placeholder="Compound Interest" readonly><br>
        </form>
    </div>
</body>
</html>

```

## Compound Interest Calculator

Principal Amount:

Rate of Interest:

Time Period (years):

Compounding Frequency (times per year):

### 26. WAP IN PHP TO SHOW USES OF FILE HANDLING WITH GUI.

```
<!DOCTYPE html>
<html>
<head>
  <title>PHPFileHandlingExample</title>
  <style>
    .file-handler{
      border:1pxsolid#ccc;
      padding: 20px;
      width: 300px;
      margin:0auto;
    }
    .file-handlerinput[type="text"],.file-handlerinput[type="file"]{
      width: 100%;
      margin-bottom:10px;
      padding: 5px;
    }
    .file-handlerinput[type="button"]{
```



```

        width: 100%;
        padding:5px;
    }
</style>
<script>
    functionreadFile(){
        varfileInput=document.getElementById('fileInput'); var
        file = fileInput.files[0];
        varreader=new FileReader();

        reader.onload = function(e) {
            document.getElementById('fileContent').value=e.target.result;
        };

        reader.readAsText(file);
    }
</script>
</head>
<body>
    <divclass="file-handler">
        <h2>FileHandlingExample</h2>
        <formonsubmit="returnfalse;">
            SelectFile:<inputtype="file" id="fileInput" required><br>
            <inputtype="button" value="ReadFile" onclick="readFile()">
            <textareaid="fileContent" placeholder="Filecontentwillappearhere" readonly></textarea>
        <br>
    </form>
    </div>
</body>
</html>

```

## File Handling Example

Select File:

threat\_intelligence\_honeypots.pdf

File content will  
appear here

### 27.WAP IN PHP TO VALIDATE AN EMAIL ADDRESS ENTERED BY USER

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <h2>27. WAP IN PHP TO VALIDATE AN EMAIL ADDRESS ENTERED BY USER

</h2>
</body>
</html>

<?php
// PHP program to validate email
// Function to validate email using regular expression
function email_validation($str) {
    return (!preg_match(
        "^[_a-z0-9-]+(\\.[_a-z0-9-]+)*@[a-z0-9-]+(\\.[a-z0-9-]+)*(\\.[a-z]{2,3})$", $str))
        ? FALSE : TRUE;
}

// Function call
if(!email_validation("author@phpprogram.com")) {
    echo "Invalid email address.";
}
else {
    echo "Valid email address.";
}
?>
```

### **27. WAP IN PHP TO VALIDATE AN EMAIL ADDRESS ENTERED BY USER**

Valid email address.

## 28.WAP IN PHP THAT REPLACES ALL SPACES IN STRING WITH UNDERSCORE

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <h2>28. WAP IN PHP THAT REPLACES ALL SPACES IN STRING WITH UNDERSCORE

</h2>
</body>
</html>
<?php
echo str_replace("world","Peter","Hello world!");
?>
```

## **28. WAP IN PHP THAT REPLACES ALL SPACES IN STRING WITH UNDERSCORE**

Hello Peter!

---

## 29.WAP IN PHP TO CHECK IF A STRING IS A VALID URL OR NOT

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <h2>29. WAP IN PHP TO CHECK IF A STRING IS A VALID URL OR NOT</h2>
</body>
</html>

<?php
$url = "https://www.w3schools.com";

if (filter_var($url, FILTER_VALIDATE_URL)) {
  echo("$url is a valid URL");
} else {
  echo("$url is not a valid URL");
}
?>
```

## **29. WAP IN PHP TO CHECK IF A STRING IS A VALID URL OR NOT**

https://www.w3schools.com is a valid URL

---

### 30.WAP IN PHP TO VALIDATE A PASSWORD MUST CONTAIN AT LEAST 8 CHARACTERS, ONE UPPERCASE LETTER, ONE LOWERCASE LETTER , ONE NUMBER AND ONE SPECIAL CHARACTER

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <h1>30. WAP IN PHP TO VALIDATE A PASSWORD MUST CONTAIN AT LEAST 8 CHARACTERS, ONE
UPPERCASE LETTER, ONE LOWERCASE LETTER , ONE NUMBER AND ONE SPECIAL CHARACTER
</h1>
</body>
</html>
<?php

$password = "PhpProgram@123";

$pattern = '/^(?=.*[a-z])(?=.*[A-Z])(?=.*\d)(?=.*[\W_]).{8,}$/' ;

if (preg_match($pattern, $password)) {
    echo "Valid Password";
} else {
    echo "Invalid Password";
}

?>
```

### **30. WAP IN PHP TO VALIDATE A PASSWORD MUST CONTAIN AT LEAST 8 CHARACTERS, ONE UPPERCASE LETTER, ONE LOWERCASE LETTER , ONE NUMBER AND ONE SPECIAL CHARACTER**

Valid Password

---

### 31.WAP IN PHP TO EXTRACT DOMAIN NAME FROM URL

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <h1>31. WAP IN PHP TO EXTRACT DOMAIN NAME FROM URL</h1>
</body>
</html>
<?php

$full_url = "http://google.com/search/console";
```

```
// 📄 parse the url and print the host part
$array = parse_url($full_url);
print $array["host"];
```

## 31. WAP IN PHP TO EXTRACT DOMAIN NAME FROM URL

google.com

---

## 32.WAP IN PHP TO FIND AND REPLACE SPECIFIC WORD IN A STRING

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <h1>WAP IN PHP TO FIND AND REPLACE SPECIFIC WORD IN A STRING</h1>
</body>
</html>

<?php
$arr = array("blue","red","green","yellow");
print_r(str_replace("red","pink",$arr,$i));
echo "<br>" . "Replacements: $i";
?>
```

## WAP IN PHP TO FIND AND REPLACE SPECIFIC WORD IN A STRING

Array ( [0] => blue [1] => pink [2] => green [3] => yellow )  
Replacements: 1

## 33.WAP IN PHP TO MATCH AND COUNT THE NUMBER OF VOWELS IN ASTRING

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <h1>WAP IN PHP TO MATCH AND COUNT THE NUMBER OF VOWELS IN ASTRING</h1>
</body>
</html>

<?php
function countVowels($str)
{
  // Case-insensitive match for vowels
  preg_match_all("/[aeiou]/i", $str, $matches);
  return count($matches[0]);
}
```

```

}

// Driver code
$str = "GeeksforGeeks";
$vowelsCount = countVowels($str);

echo "Number of vowels: " . $vowelsCount;

?>

```

## WAP IN PHP TO MATCH AND COUNT THE NUMBER OF VOWELS IN A STRING

Number of vowels: 5

### PRACTICE QUESTIONS

```

_<?php
/* Write a PHP script to upload an image file, validate its type and display it on the page*/

// Check if form is submitted
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    // Define allowed file types
    $allowedTypes = ['image/jpeg', 'image/png', 'image/gif'];
    $uploadDir = 'uploads/'; // Directory to store uploaded images

    // Check if the upload directory exists, if not, create it
    if (!is_dir($uploadDir)) {
        mkdir($uploadDir, 0777, true);
    }

    // Get file info
    $fileTmpName = $_FILES['image']['tmp_name'];
    $fileName = $_FILES['image']['name'];
    $fileSize = $_FILES['image']['size'];
    $fileType = $_FILES['image']['type'];
    $fileError = $_FILES['image']['error'];

    // Check for errors
    if ($fileError !== UPLOAD_ERR_OK) {
        echo "Error during file upload.";
        exit;
    }

    // Validate file type
    if (!in_array($fileType, $allowedTypes)) {
        echo "Invalid file type. Only JPG, PNG, and GIF are allowed.";
        exit;
    }

    // Generate a unique name for the uploaded file
    $fileExtension = pathinfo($fileName, PATHINFO_EXTENSION);
    $uniqueFileName = uniqid('img_', true) . '.' . $fileExtension;

    // Move uploaded file to the designated folder
    if (move_uploaded_file($fileTmpName, $uploadDir . $uniqueFileName)) {
        // File uploaded successfully
    }
}

```

```

        echo "File uploaded successfully. <br>";
        echo "Image preview: <br>";
        echo "<img src='" . $uploadDir . $uniqueFileName . "' alt='Uploaded Image'
width='300px' />";
    } else {
        echo "Error moving the uploaded file.";
    }
} else {
    // Display the image upload form
    echo '<form action="" method="POST" enctype="multipart/form-data">
        <label for="image">Choose an image to upload:</label>
        <input type="file" name="image" id="image" required>
        <button type="submit">Upload</button>
    </form>';
}
?>

```

Choose an image to upload:  module\_table\_bottom.png

---

```

<?php
/* Write a PHP script to create a basic login system using sessions */

session_start(); // Start the session

// Check if the user is already logged in, if so redirect to home page
if (isset($_SESSION['username'])) {
    header("Location: home.php");
    exit;
}

// Define a simple hard-coded username and password for demonstration purposes
$validUsername = "user";
$validPassword = "password123";

// Check if the form is submitted
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $username = $_POST['username'];
    $password = $_POST['password'];

    // Check if the credentials are correct
    if ($username === $validUsername && $password === $validPassword) {
        // Set session variables
        $_SESSION['username'] = $username;
        // Redirect to home page
        header("Location: home.php");
        exit;
    } else {
        // Invalid credentials
        $error = "Invalid username or password.";
    }
}
?>

```

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Login</title>
</head>
<body>
    <h2>Login</h2>

    <?php
    // Display error message if credentials are invalid
    if (isset($error)) {
        echo "<p style='color: red;'>$error</p>";
    }
    ?>

    <form action="login.php" method="POST">
        <label for="username">Username:</label>
        <input type="text" name="username" id="username" required><br><br>

        <label for="password">Password:</label>
        <input type="password" name="password" id="password" required><br><br>

        <button type="submit">Login</button>
    </form>
</body>
</html>

```

```

<?php
session_start(); // Start the session

// Check if the user is logged in
if (!isset($_SESSION['username'])) {
    header("Location: login.php");
    exit;
}

// Retrieve the username from the session
$username = $_SESSION['username'];
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Home</title>
</head>
<body>
    <h2>Welcome, <?php echo htmlspecialchars($username); ?>!</h2>
    <p>You are logged in.</p>

    <a href="logout.php">Logout</a>
</body>
</html>

```



```
<?php
session_start(); // Start the session

// Destroy all session data
session_unset();
session_destroy();

// Redirect to login page after logout
header("Location: login.php");
exit;
```

## Login

Username:

Password:

---

## Welcome, user!

You are logged in.

[Logout](#)

---

```
<?php
/* Write a Php script to create a form with fields for "First Name " and " Last Name " .
When the form is submitted , display a greeting message that includes the user's first and
last name */

// Check if the form is submitted via POST method
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    // Get the first name and last name from the form
    $firstName = htmlspecialchars($_POST['first_name']);
    $lastName = htmlspecialchars($_POST['last_name']);

    // Display the greeting message with the user's first and last name
    echo "<h2>Hello, $firstName $lastName! Welcome to our site.</h2>";
} else {
    // If the form is not submitted yet, show the form
    ?>
    <!DOCTYPE html>
    <html lang="en">
    <head>
```

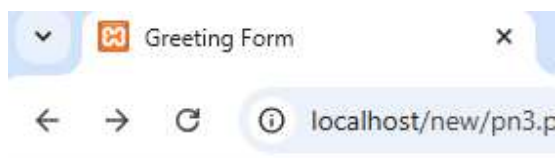
```

<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Greeting Form</title>
</head>
<body>
  <h2>Please enter your details:</h2>
  <form action="pn3.php" method="POST">
    <label for="first_name">First Name:</label>
    <input type="text" name="first_name" id="first_name" required><br><br>

    <label for="last_name">Last Name:</label>
    <input type="text" name="last_name" id="last_name" required><br><br>

    <button type="submit">Submit</button>
  </form>
</body>
</html>
<?php
}
?>

```



## Please enter your details:

First Name:

Last Name:

← → ↻ ⓘ localhost/new/pn3.php

**Hello, sakshi pandey! Welcome to our site.**

```

<?php
/* Write a PHP script to create a simple calculator form with two fields
for " Number1 " and "Number2 " and a drop-down to select an operation
(+, -, *, /) . when the form is submitted, display the result of the
selected operation */

// Initialize result variable
$result = null;

// Check if the form is submitted

```

```

if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    // Get the input values from the form
    $number1 = $_POST['number1'];
    $number2 = $_POST['number2'];
    $operation = $_POST['operation'];

    // Validate that inputs are numeric
    if (is_numeric($number1) && is_numeric($number2)) {
        // Perform the selected operation
        switch ($operation) {
            case '+':
                $result = $number1 + $number2;
                break;
            case '-':
                $result = $number1 - $number2;
                break;
            case '*':
                $result = $number1 * $number2;
                break;
            case '/':
                if ($number2 != 0) {
                    $result = $number1 / $number2;
                } else {
                    $result = "Error: Division by zero.";
                }
                break;
            default:
                $result = "Invalid operation.";
                break;
        }
    } else {
        $result = "Please enter valid numbers.";
    }
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Simple Calculator</title>
</head>
<body>
    <h2>Simple Calculator</h2>
    <form action="pn4.php" method="POST">
        <label for="number1">Number 1:</label>
        <input type="text" name="number1" id="number1" required><br><br>

        <label for="number2">Number 2:</label>
        <input type="text" name="number2" id="number2" required><br><br>

        <label for="operation">Operation:</label>
        <select name="operation" id="operation" required>
            <option value="+">+</option>
            <option value="-">-</option>
            <option value="*">*</option>
            <option value="/">/</option>
        </select><br><br>
    </form>

```

```

        <button type="submit">Calculate</button>
    </form>

    <?php
    // Display the result after form submission
    if ($result !== null) {
        echo "<h3>Result: $result</h3>";
    }
    ?>
</body>
</html>

```

← → ↻ ⓘ localhost/new/pn4.php

## Simple Calculator

Number 1:

Number 2:

Operation:

**Result: 134**

```

<?php
/* Write a PHP script to create a user registration form with fields for
" Username ", "Password ", " Confirm Password ".
When the form is submitted , check that the password and confirm password match.
If they match , display a success message, otherwise display an error */

// Initialize the result message
$message = "";

// Check if the form is submitted
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    // Get the form values
    $username = $_POST['username'];
    $password = $_POST['password'];
    $confirmPassword = $_POST['confirm_password'];

    // Check if password and confirm password match
    if ($password === $confirmPassword) {
        // Passwords match, display success message
        $message = "Registration successful! Welcome, $username.";
    } else {
        // Passwords don't match, display error message
    }
}

```

```

        $message = "Error: Password and Confirm Password do not match.";
    }
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>User Registration</title>
</head>
<body>
    <h2>User Registration</h2>

    <!-- Display message after form submission -->
    <?php
    if ($message !== "") {
        echo "<p style='color: " . (strpos($message, "Error") === false ? "green" : "red") .
";'$message</p>";
    }
    ?>

    <!-- Registration Form -->
    <form action="pn5.php" method="POST">
        <label for="username">Username:</label>
        <input type="text" name="username" id="username" required><br><br>

        <label for="password">Password:</label>
        <input type="password" name="password" id="password" required><br><br>

        <label for="confirm_password">Confirm Password:</label>
        <input type="password" name="confirm_password" id="confirm_password" required><br><br>

        <button type="submit">Register</button>
    </form>
</body>
</html>

```

## User Registration

Error: Password and Confirm Password do not match.

Username:

Password:

Confirm Password:

---

```
<?php
```

```

/* Write a PHP script to create a simple calculator that divides two numbers
entered by the user. If the user tries to divide by zero, catch the exception
and display an error message */

// Initialize result variable and error message
$result = null;
$errorMessage = "";

// Check if the form is submitted
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    // Get the input values from the form
    $number1 = $_POST['number1'];
    $number2 = $_POST['number2'];

    // Check if the input values are numeric
    if (is_numeric($number1) && is_numeric($number2)) {
        try {
            // Attempt to perform the division
            if ($number2 == 0) {
                throw new Exception("Error: Division by zero is not allowed.");
            } else {
                $result = $number1 / $number2;
            }
        } catch (Exception $e) {
            // Catch the exception and store the error message
            $errorMessage = $e->getMessage();
        }
    } else {
        $errorMessage = "Please enter valid numbers.";
    }
}

?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Simple Calculator with Exception Handling</title>
</head>
<body>
    <h2>Simple Division Calculator</h2>

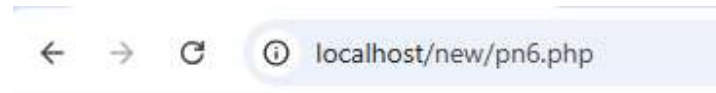
    <!-- Display error message if there's any -->
    <?php
    if ($errorMessage != "") {
        echo "<p style='color: red;'>$errorMessage</p>";
    } elseif ($result != null) {
        echo "<h3>Result: $result</h3>";
    }
    ?>

    <!-- Calculator Form -->
    <form action="pn6.php" method="POST">
        <label for="number1">Number 1:</label>
        <input type="text" name="number1" id="number1" required><br><br>

```

```
<label for="number2">Number 2:</label>
<input type="text" name="number2" id="number2" required><br><br>

<button type="submit">Divide</button>
</form>
</body>
</html>
```



## Simple Division Calculator

Error: Division by zero is not allowed.

Number 1:

Number 2:

```
<?php

/* Write a PHP script that accepts an age input from user and throws a
custom exception if the age is less than 18. Catch the exception
and display an error message saying " Age must be 18 or older " */

// Define a custom exception class
class AgeException extends Exception {
    // Custom message for the exception
    public function errorMessage() {
        return "Error: Age must be 18 or older.";
    }
}

// Initialize variables
$age = null;
$errorMessage = "";

// Check if the form is submitted
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    // Get the age from the form
    $age = $_POST['age'];

    try {
        // Check if the age is numeric
        if (!is_numeric($age)) {
            throw new Exception("Error: Please enter a valid number for age.");
        }

        // Throw an exception if age is less than 18
    }
}
```

```

        if ($age < 18) {
            throw new AgeException(); // Custom exception is thrown
        } else {
            $errorMessage = "You are eligible, age is: $age.";
        }
    } catch (AgeException $e) {
        // Catch the custom exception
        $errorMessage = $e->errorMessage();
    } catch (Exception $e) {
        // Catch general exceptions (like invalid number input)
        $errorMessage = $e->getMessage();
    }
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Age Check</title>
</head>
<body>
    <h2>Enter Your Age</h2>

    <!-- Display error or success message -->
    <?php
    if ($errorMessage !== "") {
        echo "<p style='color: red;'">$errorMessage</p>";
    }
    ?>

    <!-- Form to input age -->
    <form action="pn7.php" method="POST">
        <label for="age">Age:</label>
        <input type="text" name="age" id="age" required><br><br>

        <button type="submit">Submit</button>
    </form>
</body>
</html>

```

← → ↻ ⓘ localhost/new/pn7.php

## Enter Your Age

Error: Age must be 18 or older.

Age:

Submit



```

<?php
/* Write a PHP script that connects to a MySQL database named company .
The script should use localhost as the server. root as the username , and an empty password.
display a message indicating whether the conection was sucess ful. */

$servername ="localhost";
$username = "root";
$password = "";
$dbname ="company";

$conn = new mysqli($servername,$username,$password,$dbname);

if($conn->connect_error){
    die("Connection failed: ".$conn->connect_error);
}

echo "connected successfully!";

/*Write php script to inser a new employee record into the table named employees in the
company
The table has the following fields
Insert a new record */

$sql = "INSERT INTO employees (id, name_emp, email,salary) VALUES
('102','user4','user4@example.com',40000)";

if($conn->query($sql) == TRUE){
    echo "New record created successfully";
}
else{
    echo "Error: ".$sql."<br>".$conn->error;
}

/* display all record of table with column name */

/* write php script to delete an employee data with id E102 */

$sql2 = "DELETE FROM employees WHERE id ='102' ";

if($conn->query($sql2) == TRUE){
    echo "Record deleted successfully";
}
else{
    echo "Error: ".$sql."<br>".$conn->error;
}

$sql3 = " SELECT * FROM employees ORDER BY id";
$result = $conn->query($sql3);

$conn->close();
?>

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">

```

```

<title>Employee details</title>
<!-- CSS FOR STYLING THE PAGE -->
<style>
    table {
        margin: 0 auto;
        font-size: large;
        border: 1px solid black;
    }

    h1 {
        text-align: center;
        color: #006600;
        font-size: xx-large;
        font-family: 'Gill Sans', 'Gill Sans MT',
        ' Calibri', 'Trebuchet MS', 'sans-serif';
    }

    td {
        background-color: #E4F5D4;
        border: 1px solid black;
    }

    th,
    td {
        font-weight: bold;
        border: 1px solid black;
        padding: 10px;
        text-align: center;
    }

    td {
        font-weight: lighter;
    }
</style>
</head>

<body>
    <section>
        <h1>Company</h1>
        <!-- TABLE CONSTRUCTION -->
        <table>
            <tr>
                <th>Employee Id </th>
                <th>Employee Name</th>
                <th>Employee Email</th>
                <th>GFG Articles</th>
            </tr>
            <!-- PHP CODE TO FETCH DATA FROM ROWS -->
            <?php
                // LOOP TILL END OF DATA
                while($rows=$result->fetch_assoc())
                {
                    ?>
            <tr>
                <!-- FETCHING DATA FROM EACH
                ROW OF EVERY COLUMN -->
                <td><?php echo $rows['id'];?></td>
                <td><?php echo $rows['name_emp'];?></td>
                <td><?php echo $rows['email'];?></td>

```

```
<td><?php echo $rows['salary'];?></td>
</tr>
<?php
}
?>
</table>
</section>
</body>

</html>
```

Server: localhost:3306 » Database: company » Table: employees

Browse

Structure

SQL

Search

Insert

Export

Import

Privileges

Operations

Tracking

Triggers

Table structure

Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	id	int(10)		No	None			Change  Drop  More
<input type="checkbox"/>	2	name_emp	varchar(50)	utf8mb4_general_ci	No	None			Change  Drop  More
<input type="checkbox"/>	3	email	varchar(50)	utf8mb4_general_ci	No	None			Change  Drop  More
<input type="checkbox"/>	4	salary	float		No	None			Change  Drop  More

connected successfully!

## Company

Employee Id	Employee Name	Employee Email	GFG Articles
101	Andrew	andrew@example.com	60000
103	user3	user3@example.com	40000

connected successfully!New record created successfully

## Company

Employee Id	Employee Name	Employee Email	GFG Articles
101	Andrew	andrew@example.com	60000
102	user4	user4@example.com	40000
103	user3	user3@example.com	40000

connected successfully!Record deleted successfully

## Company

Employee Id	Employee Name	Employee Email	GFG Articles
101	Andrew	andrew@example.com	60000
103	user3	user3@example.com	40000

connected successfully!New record created successfullyRecord deleted successfully

Company

Employee Id	Employee Name	Employee Email	GFG Articles
101	Andrew	andrew@example.com	60000
103	user3	user3@example.com	40000

---