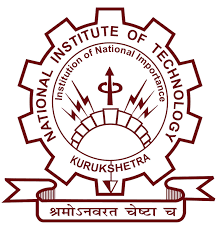
**WEB**

**TECHNOLOGY**

**(ITPC 33)**



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**Roll No: 21813004 GK Verma Sir**

**Section: IT-A (IT-2)**

**Class: 3rd year, B. Tech**

**Semester: 5th**

**EXPERIMENT 4**

**Program 1: Create a PHP program to create cookies and read cookies.**

**1) File : index.php**

**Code**

<!-- Create a PHP program to create cookies and read cookies. -->

<?php

  $str = "";

  if($\_POST)

{

    $str = $\_POST['Name'];

  }

$cookie\_name = "User";

  $cookie\_value = "$str";

  setcookie($cookie\_name , $cookie\_value , time() + 120, "/");

?>

<html>

  <body>

    <h1> Cookie Set using PHP </h1>

    <form method="post">

      Enter the username:

      <input type="text" name="Name">

      <input type="submit" name="Submit">

    </form>

<?php

      if(!isset($\_COOKIE[$cookie\_name]))

{

        echo "Cookie named '" . $cookie\_name . "' is not set.";

      }

else

{

        echo "Cookie '".$cookie\_name."' is set!<br>";

        echo "Cookie value is '". $\_COOKIE[$cookie\_name]."'";

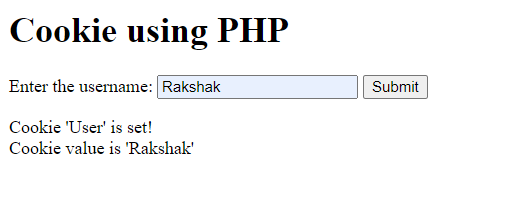
      }

    ?>

  </body>

</html>

**OUTPUT Screen:**

****

**Program 2: Create a login form with the help of session. User should move to next page when successfully login.**

**1) File : index.php**

**Code**

<?php

session\_start();

if(!isset($\_SESSION["loggedin"]) || $\_SESSION["loggedin"] !== true){

    header("location: login.php");

    exit;

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Welcome</title>

    <style type="text/css">

        body{ font: 14px sans-serif; text-align: center; }

    </style>

</head>

<body>

    <div class="page-header">

        <h1>Hi, <b><?php echo htmlspecialchars($\_SESSION["username"]); ?></b>. Welcome to our site.</h1>

    </div>

    <p>

        <a href="reset-password.php" class="btn btn-warning">Reset Your Password</a>

        <br>

        <a href="logout.php" class="btn btn-danger">Sign Out of Your Account</a>

    </p>

</body>

</html>

**2) File : register.php**

**Code**

<?php

require\_once "config.php";

$username = $password = $confirm\_password = "";

$username\_err = $password\_err = $confirm\_password\_err = "";

if($\_SERVER["REQUEST\_METHOD"] == "POST"){

    if(empty(trim($\_POST["username"]))){

        $username\_err = "Please enter a username.";

    } else{

        $sql = "SELECT id FROM users WHERE username = ?";

        if($stmt = mysqli\_prepare($link, $sql)){

            mysqli\_stmt\_bind\_param($stmt, "s", $param\_username);

            $param\_username = trim($\_POST["username"]);

            if(mysqli\_stmt\_execute($stmt)){

                mysqli\_stmt\_store\_result($stmt);

                if(mysqli\_stmt\_num\_rows($stmt) == 1){

                    $username\_err = "This username is already taken.";

                } else{

                    $username = trim($\_POST["username"]);

                }

            } else{

                echo "Oops! Something went wrong. Please try again later.";

            }

            mysqli\_stmt\_close($stmt);

        }

    }

    if(empty(trim($\_POST["password"]))){

        $password\_err = "Please enter a password.";

    } elseif(strlen(trim($\_POST["password"])) < 6){

        $password\_err = "Password must have atleast 6 characters.";

    } else{

        $password = trim($\_POST["password"]);

    }

    if(empty(trim($\_POST["confirm\_password"]))){

        $confirm\_password\_err = "Please confirm password.";

    } else{

        $confirm\_password = trim($\_POST["confirm\_password"]);

        if(empty($password\_err) && ($password != $confirm\_password)){

            $confirm\_password\_err = "Password did not match.";

        }

    }

    if(empty($username\_err) && empty($password\_err) && empty($confirm\_password\_err)){

        $sql = "INSERT INTO users (username, password) VALUES (?, ?)";

        if($stmt = mysqli\_prepare($link, $sql)){

            mysqli\_stmt\_bind\_param($stmt, "ss", $param\_username, $param\_password);

            $param\_username = $username;

            $param\_password = password\_hash($password, PASSWORD\_DEFAULT);

            if(mysqli\_stmt\_execute($stmt)){

                header("location: login.php");

            } else{

                echo "Something went wrong. Please try again later.";

            }

            mysqli\_stmt\_close($stmt);

        }

    }

    mysqli\_close($link);

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Sign Up</title>

    <style type="text/css">

        body{ font: 14px sans-serif; }

        .wrapper{ width: 350px; padding: 20px; }

    </style>

</head>

<body>

    <div class="wrapper">

        <h2>Sign Up</h2>

        <p>Please fill this form to create an account.</p>

        <form action="<?php echo htmlspecialchars($\_SERVER["PHP\_SELF"]); ?>" method="post">

            <div class="form-group <?php echo (!empty($username\_err)) ? 'has-error' : ''; ?>">

                <label>Username</label>

                <input type="text" name="username" class="form-control" value="<?php echo $username; ?>">

                <span class="help-block"><?php echo $username\_err; ?></span>

            </div>

            <div class="form-group <?php echo (!empty($password\_err)) ? 'has-error' : ''; ?>">

                <label>Password</label>

                <input type="password" name="password" class="form-control" value="<?php echo $password; ?>">

                <span class="help-block"><?php echo $password\_err; ?></span>

            </div>

            <div class="form-group <?php echo (!empty($confirm\_password\_err)) ? 'has-error' : ''; ?>">

                <label>Confirm Password</label>

                <input type="password" name="confirm\_password" class="form-control" value="<?php echo $confirm\_password; ?>">

                <span class="help-block"><?php echo $confirm\_password\_err; ?></span>

            </div>

            <div class="form-group">

                <input type="submit" class="btn btn-primary" value="Submit">

                <input type="reset" class="btn btn-default" value="Reset">

            </div>

            <p>Already have an account? <a href="login.php">Login here</a>.</p>

        </form>

    </div>

</body>

</html>

**3) File : login.php**

**Code**

<?php

session\_start();

if(isset($\_SESSION["loggedin"]) && $\_SESSION["loggedin"] === true){

    header("location: welcome.php");

    exit;

}

require\_once "config.php";

$username = $password = "";

$username\_err = $password\_err = "";

if($\_SERVER["REQUEST\_METHOD"] == "POST"){

    if(empty(trim($\_POST["username"]))){

        $username\_err = "Please enter username.";

    } else{

        $username = trim($\_POST["username"]);

    }

    if(empty(trim($\_POST["password"]))){

        $password\_err = "Please enter your password.";

    } else{

        $password = trim($\_POST["password"]);

    }

    if(empty($username\_err) && empty($password\_err)){

        $sql = "SELECT id, username, password FROM users WHERE username = ?";

        if($stmt = mysqli\_prepare($link, $sql)){

            mysqli\_stmt\_bind\_param($stmt, "s", $param\_username);

            $param\_username = $username;

            if(mysqli\_stmt\_execute($stmt)){

                mysqli\_stmt\_store\_result($stmt);

                if(mysqli\_stmt\_num\_rows($stmt) == 1){

                    mysqli\_stmt\_bind\_result($stmt, $id, $username, $hashed\_password);

                    if(mysqli\_stmt\_fetch($stmt)){

                        if(password\_verify($password, $hashed\_password)){

                            session\_start();

                            $\_SESSION["loggedin"] = true;

                            $\_SESSION["id"] = $id;

                            $\_SESSION["username"] = $username;

                            header("location: welcome.php");

                        } else{

                            $password\_err = "The password you entered was not valid.";

                        }

                    }

                } else{

                    $username\_err = "No account found with that username.";

                }

            } else{

                echo "Oops! Something went wrong. Please try again later.";

            }

            mysqli\_stmt\_close($stmt);

        }

    }

    mysqli\_close($link);

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Login</title>

    <style type="text/css">

        body{ font: 14px sans-serif; }

        .wrapper{ width: 350px; padding: 20px; }

    </style>

</head>

<body>

    <div class="wrapper">

        <h2>Login</h2>

        <p>Please fill in your credentials to login.</p>

        <form action="<?php echo htmlspecialchars($\_SERVER["PHP\_SELF"]); ?>" method="post">

            <div class="form-group <?php echo (!empty($username\_err)) ? 'has-error' : ''; ?>">

                <label>Username</label>

                <input type="text" name="username" class="form-control" value="<?php echo $username; ?>">

                <span class="help-block"><?php echo $username\_err; ?></span>

            </div>

            <div class="form-group <?php echo (!empty($password\_err)) ? 'has-error' : ''; ?>">

                <label>Password</label>

                <input type="password" name="password" class="form-control">

                <span class="help-block"><?php echo $password\_err; ?></span>

            </div>

            <div class="form-group">

                <input type="submit" class="btn btn-primary" value="Login">

            </div>

            <p>Don't have an account? <a href="register.php">Sign up now</a>.</p>

        </form>

    </div>

</body>

</html>

**4) File : logout.php**

**Code**

<?php

session\_start();

$\_SESSION = array();

session\_destroy();

header("location: login.php");

exit;

?>

**5) File : config.php**

**Code**

<?php

define('DB\_SERVER', 'localhost');

define('DB\_USERNAME', 'root');

define('DB\_PASSWORD', '');

define('DB\_NAME', 'first');

$link = mysqli\_connect(DB\_SERVER, DB\_USERNAME, DB\_PASSWORD, DB\_NAME);

if($link === false){

    die("ERROR: Could not connect. " . mysqli\_connect\_error());

}

?>

**6) File : reset.php**

**Code**

<?php

session\_start();

if(!isset($\_SESSION["loggedin"]) || $\_SESSION["loggedin"] !== true){

    header("location: login.php");

    exit;

}

require\_once "config.php";

$new\_password = $confirm\_password = "";

$new\_password\_err = $confirm\_password\_err = "";

if($\_SERVER["REQUEST\_METHOD"] == "POST"){

    if(empty(trim($\_POST["new\_password"]))){

        $new\_password\_err = "Please enter the new password.";

    } elseif(strlen(trim($\_POST["new\_password"])) < 6){

        $new\_password\_err = "Password must have atleast 6 characters.";

    } else{

        $new\_password = trim($\_POST["new\_password"]);

    }

    if(empty(trim($\_POST["confirm\_password"]))){

        $confirm\_password\_err = "Please confirm the password.";

    } else{

        $confirm\_password = trim($\_POST["confirm\_password"]);

        if(empty($new\_password\_err) && ($new\_password != $confirm\_password)){

            $confirm\_password\_err = "Password did not match.";

        }

    }

    if(empty($new\_password\_err) && empty($confirm\_password\_err)){

        $sql = "UPDATE users SET password = ? WHERE id = ?";

        if($stmt = mysqli\_prepare($link, $sql)){

            mysqli\_stmt\_bind\_param($stmt, "si", $param\_password, $param\_id);

            $param\_password = password\_hash($new\_password, PASSWORD\_DEFAULT);

            $param\_id = $\_SESSION["id"];

            if(mysqli\_stmt\_execute($stmt)){

                session\_destroy();

                header("location: login.php");

                exit();

            } else{

                echo "Oops! Something went wrong. Please try again later.";

            }

            mysqli\_stmt\_close($stmt);

        }

    }

    mysqli\_close($link);

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Reset Password</title>

    <style type="text/css">

        body{ font: 14px sans-serif; }

        .wrapper{ width: 350px; padding: 20px; }

    </style>

</head>

<body>

    <div class="wrapper">

        <h2>Reset Password</h2>

        <p>Please fill out this form to reset your password.</p>

        <form action="<?php echo htmlspecialchars($\_SERVER["PHP\_SELF"]); ?>" method="post">

            <div class="form-group <?php echo (!empty($new\_password\_err)) ? 'has-error' : ''; ?>">

                <label>New Password</label>

                <input type="password" name="new\_password" class="form-control" value="<?php echo $new\_password; ?>">

                <span class="help-block"><?php echo $new\_password\_err; ?></span>

            </div>

            <div class="form-group <?php echo (!empty($confirm\_password\_err)) ? 'has-error' : ''; ?>">

                <label>Confirm Password</label>

                <input type="password" name="confirm\_password" class="form-control">           <span class="help-block"><?php echo $confirm\_password\_err; ?></span>

            </div>

            <div class="form-group">

                <input type="submit" class="btn btn-primary" value="Submit">

                <a class="btn btn-link" href="welcome.php">Cancel</a>

            </div>

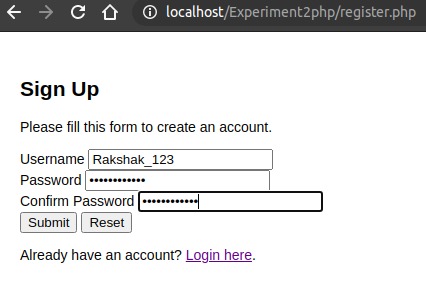
        </form>

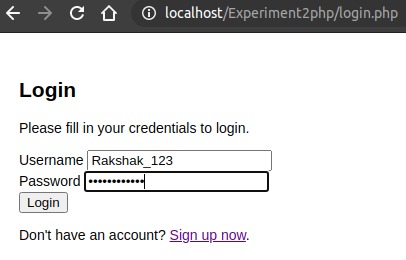
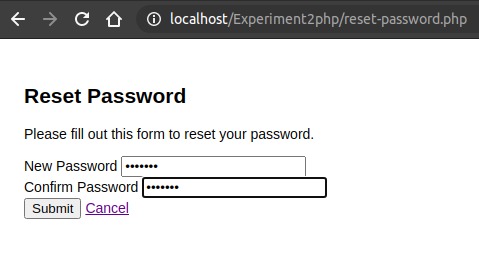
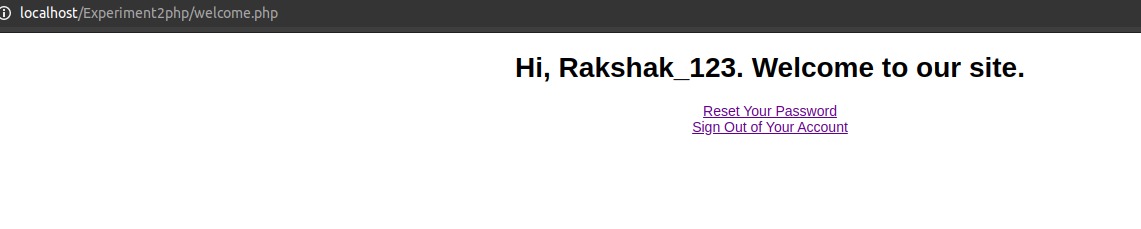
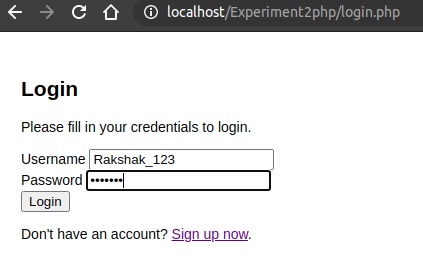
    </div>

</body>

</html>

**OUTPUT Screen:**

****

****

**Program 3: Create a PHP program to show magic constants.**

**1) File : index.php**

**Code**

<html>

<body>

<h1 style="text-align:center;">MAGIC CONSTANTS</h1>

</body>

</html>

<?php

    echo "<h3>Example for \_\_FILE\_\_</h3>";

    echo "It tells us the path of our file is : ". \_\_FILE\_\_ . "<br><br>";

    echo "<h3>Example for \_\_LINE\_\_</h3>";

    echo "This line tells us that you are at line number " . \_\_LINE\_\_ . "<br><br>";

    echo "<h3>Example for \_\_DIR\_\_</h3>";

    echo "The directory in which our file is : ". \_\_DIR\_\_ . "<br><br>";

    echo "This statement also provides the directory but usin \_\_FILE\_\_ constant : ".dirname(\_\_FILE\_\_) . "<br><br>";

    echo "<h3>Example for \_\_FUNCTION\_\_</h3>";

    function test(){

        echo 'The function name is '. \_\_FUNCTION\_\_ . "<br><br>";

        echo "Hello World<br><br>";

    }

    test();

    echo "<h3>Example for \_\_CLASS\_\_</h3>";

    class JTP

    {

        public function \_\_construct() {

            ;

    }

    function getClassName(){

        echo "The class name is : ".\_\_CLASS\_\_ . "<br><br>";

        }

    }

    $t = new JTP;

    $t->getClassName();

    //in case of multiple classes

    class base

    {

    function test\_first(){

            //will always print parent class which is base here.

            echo "The Parent class is : ".\_\_CLASS\_\_;

        }

    }

    class child extends base

    {

        public function \_\_construct() {

            ;

        }

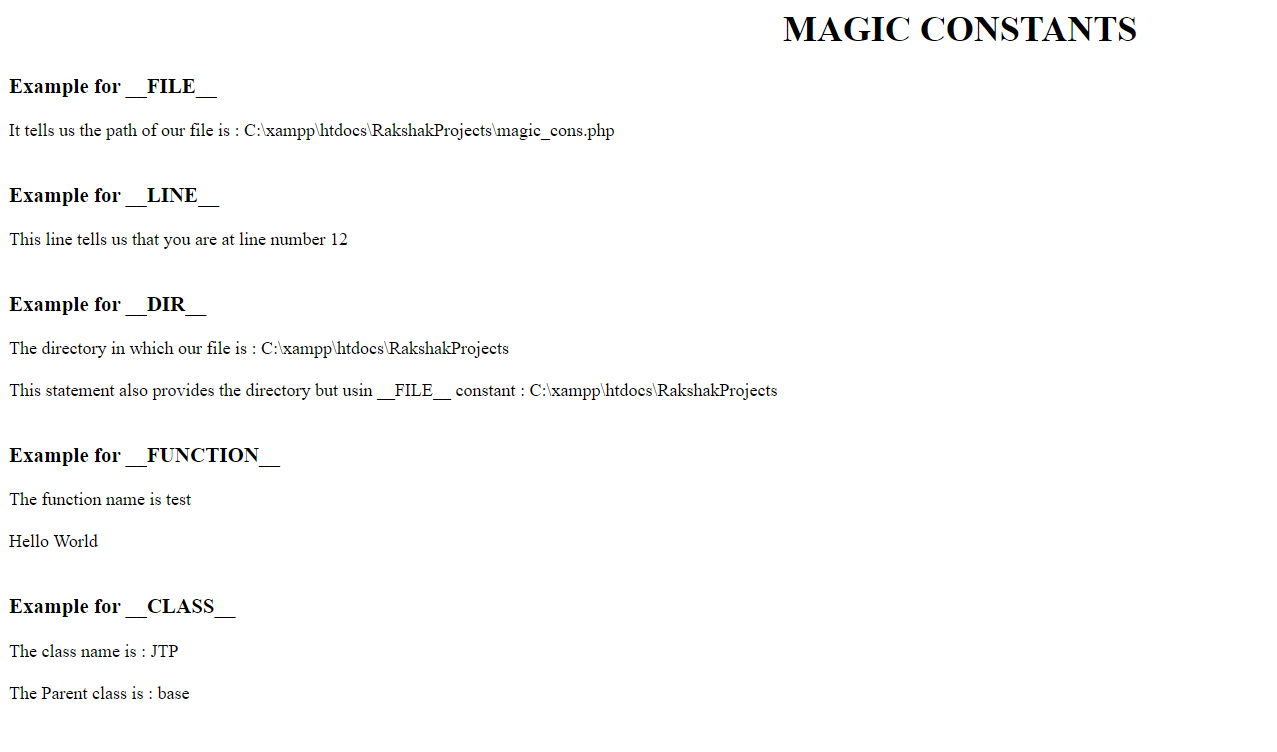
    }

    $t = new child;

    $t->test\_first();

?>

**OUTPUT Screen:**

****

**Program 4: Create a PHP program for tracking number of visitors (file handling).**

**1) File : index.php**

**Code**

<!-- PHP Program for tracking number of visitors(file -->

<!-- handling) -->

<!DOCTYPE html >

  <head>

    <title> My Counter Website</title>

  </head>

  <body bgcolor = "orange" >

    <h1> this is the counter website </h1>

  </body>

</html>

<?php

  $handle = fopen("./counter.txt", "r");

  if(!$handle){

    echo "could not open the file" ;

  } else {

    $counter = (int) fread($handle,20);

    fclose ($handle);

    $counter++;

    echo" <strong> you are visitor no ". $counter . " </strong> " ;

    $handle = fopen("./counter.txt", "w" );

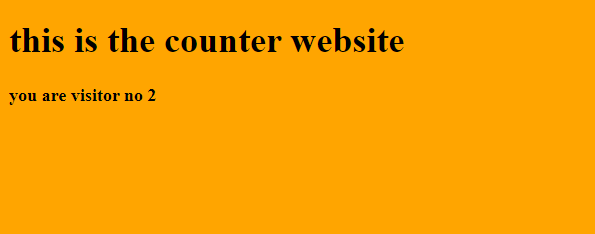
    fwrite($handle,$counter) ;

    fclose ($handle) ;

  }

?>

**OUTPUT Screen:**



**Program 5: Create a PHP program to show use of include /require.**

**1) File : index.php**

**Code**

<!-- Create a PHP program to show use of include /require. -->

<html>

  <body>

    <p>

      The Include and Require statements have the following difference

    </p>

    <p>

      <ul>

        <li>if file is included using the <b>include</b> statement, if file is not present the execution still continues.</li>

        <li>if file is included using the <b>require</b> statement, if file is not present the execution stops.

      </ul>

    </p>

    <p>if file is not present <b>include</b> give us warning but still continues execution but <b>require</b> requires the file to be present and thus their is an error.</p>

    <p>Following is the file header included using <b><u>include</b></u> <br> and the content using <u><b>require</b></u> <br> and the footer using <u><b>include</b></u> again.

    </p>

  <h2>Welcome to page!</h2>

  <?php

    ini\_set("display\_errors" , 0);

    include 'header.php';

    echo "I have a header named ";

    echo "<h1>This is the content</h1>";

    require 'content.php';

    echo "I have a content that car color is red";

    include 'footer.php';

    echo "I have nothing to show here.";

  ?>

</body>

<html>

**OUTPUT Screen:**

