**<?php**

**mysqli\_connect("localhost","practice",""); ---connect to the database using php. Server: localhost, database name = practice, password = none.**

**echo mysqli\_connect\_error(); ---This will echo the error if there is any during the connection.**

**?>**

**<?php**

**//** *hostname = localhost, username = Rohan, password = nothing, database name = practice. This line connects the database and stores the connection to the variable link.*

**$link = mysqli\_connect("localhost","Rohan","","practice");**

**if(mysqli\_connect\_error())**

**{**

**//** *if there is error while connecting to the database, kill the connection.*

**die("There was an error in database connection."); }**

**//** *select all from users table and store in the variable query*

**$query = "SELECT \* FROM users";**

**//***This queries the link and query.*

**$result = mysqli\_query($link,$query);**

**if($result)**

**{**

**//***Fetches the result and stores in the variable row.*

**$row = mysqli\_fetch\_array($result);**

**print\_r($row);**

**print\_r("Your email is: ".$row['email' or 1]."<br>");**

**print\_r("Your password is: ".$row['password' or 2]."<br>");**

**print\_r($row);**

**}?**

**//***Add the query to the database*

**$query = "INSERT INTO `users`(`email`,`password`) VALUES('Romney@gmail.com','joking')";**

**//***Update the database*

**$query = "UPDATE `users` SET password = 'xyz123' WHERE email = 'robperceval@gmail.com' LIMIT 1";**

*//retrieves the data from database where email = “tom@gmail.com”*

**$query = "SELECT \* FROM `users` WHERE email = 'tom@gmail.com'";**

**//***To access multiple rows*

**while($row = mysqli\_fetch\_array($result))**

**{**

**echo "Your email is ".$row['email']." and your password is ".$row['password']."<br>";**

**}**

**//***where email is like something.edu. % = anything in mySQL*

**$query = "SELECT \* FROM `users` WHERE email LIKE '%.edu'";**

**//***Anything with letter ‘R’*

***$query = "SELECT \* FROM `users` WHERE email LIKE '%R%'";***

***//***id>=2 AND email like ..

**$query = "SELECT \* FROM `users` WHERE id>=2 AND email LIKE '%r%'";**

**//***When we use variable to extract data from database, we must use escape character to avoid sql injection.*

**$query = "SELECT \* FROM `users` WHERE name = '".mysqli\_real\_escape\_string($link,$name)."'";**

**QUESTION: check if the email provided by user is in the database and if there is not then add it in the database.**

**<!--creating form-->**

**<form method = "post">**

**<p>Enter name:</p>**

**<input type = "text" name = "name">**

**<p>Enter email:</p>**

**<input type = "text" name = "email">**

**<p>Enter password</p>**

**<input type = "password" name = "password">**

**<p><input type = "submit" value = "Sign-up"></p>**

**</form>**

**<!--php code-->**

**<?php**

**// storing the information from form in the variables**

**$userEmail = $\_POST["email"];**

**$userName = $\_POST["name"];**

**$userPassword = $\_POST["password"];**

**// connecting to the database**

**$link = mysqli\_connect("localhost","Rohan","","practice");**

**if(mysqli\_connect\_error())**

**{**

**die("There was an error in database connection.");**

**}**

**if($userEmail != null)**

**{**

**// Checking in the database if the email is present**

**$query = "SELECT \* FROM `users` WHERE email = '".mysqli\_real\_escape\_string($link,$userEmail)."' ";**

**// quering in sql**

**$result = mysqli\_query($link,$query);**

**// if there is any result**

**if($result)**

**{**

**// fetching the array and storing in row array**

**$row = mysqli\_fetch\_array($result);**

**// if row is empty**

**if(sizeof($row)==0)**

**{**

**// inserting the email, password and name provided by the user**

**$query2 = "INSERT INTO `users`(`email`,`password`,`name`) VALUES ('$userEmail','$userName','$userPassword')";**

**$result2 = mysqli\_query($link,$query2);**

**if ($result2)**

**{**

**echo "sign-up complete.";**

**}**

**}**

**else**

**{**

**echo "Email already registered. Please use different email";**

**}**

**}**

**}**

**else**

**{**

**echo "Please type your email address.";**

**}**

**?>**

**ANOTHER WAY OF DOING THE ABOVE TASK IS :**

**<!--creating form-->**

**<form method = "post">**

**<p>Enter name:</p>**

**<input type = "text" name = "name">**

**<p>Enter email:</p>**

**<input type = "text" name = "email" placeholder = "Email address">**

**<p>Enter password</p>**

**<input type = "password" name = "password" placeholder = "Password">**

**<p><input type = "submit" value = "Sign-up"></p>**

**</form>**

**<!--php code-->**

**<?php**

**// storing the information from form in the variables**

**$userEmail = $\_POST["email"];**

**$userName = $\_POST["name"];**

**$userPassword = $\_POST["password"];**

**// connecting to the database**

**$link = mysqli\_connect("localhost","Rohan","","practice");**

**if(mysqli\_connect\_error())**

**{**

**die("There was an error in database connection.");**

**}**

**// if there is an array key 'email' and 'password'**

**if(array\_key\_exists('email',$\_POST) OR array\_key\_exists('password',$\_POST))**

**{**

**if($userEmail == '')**

**{**

**echo "<p>Email is required.</p>";**

**}**

**else if($userName == '')**

**{**

**echo "<p>Name is required</p>";**

**}**

**else if ($userPassword == '')**

**{**

**echo "<p>Password is required</p>";**

**}**

**else**

**{**

**// select id from database whose email is same as users**

**$query = "SELECT `id` FROM `users` WHERE email = '".mysqli\_real\_escape\_string($link,$userEmail)."'";**

**// storing the query in variable result**

**$result = mysqli\_query($link, $query);**

**// if the number of rows in result greater than zero?**

**if (mysqli\_num\_rows($result)>0)**

**{**

**echo"<p>Email is already registered.</p>";**

**}**

**else**

**{**

**// Insert the name, email and password provided by the user into the database.**

**$query = "INSERT INTO `users` (`name`,`email`,`password`) VALUES ('".mysqli\_real\_escape\_string($link,$userName)."','".mysqli\_real\_escape\_string($link,$userEmail)."','".mysqli\_real\_escape\_string($link,$userPassword)."')";**

**// if the query is succesfull**

**if(mysqli\_query($link,$query))**

**{**

**echo "<p>You have been signed up!</p>";**

**}**

**else**

**{**

**echo"<p>There was a problem. Please try again later</p>";**

**}**

**}**

**}**

**}**

**?>**

**SESSION VARIABLE:**

**<?php**

*//start session*

**session\_start();**

*//session variable username with value RohanMaharjan*

**$\_SESSION[`username`] = "RohanMaharjan";**

*Echo the session variable i.e. RohanMaharjan*

**echo $\_SESSION[`username`];**

**?>**

**The great thing about using session variable is that the variable username knows the value even if the assigned line is removed. For example:**

**<?php**

*//start session*

**session\_start();**

*Echo the session variable i.e. RohanMaharjan*

**echo $\_SESSION[`username`];**

**?>**

**This will give RohanMaharjan as an output because it remembers the value**

**The above program can be modified as follows;**

**<!--creating form-->**

**<form method = "post">**

**<p>Enter name:</p>**

**<input type = "text" name = "name">**

**<p>Enter email:</p>**

**<input type = "text" name = "email" placeholder = "Email address">**

**<p>Enter password</p>**

**<input type = "password" name = "password" placeholder = "Password">**

**<p><input type = "submit" value = "Sign-up"></p>**

**</form>**

**<!--php code-->**

**<?php**

**// Starting session**

**session\_start();**

**// connecting to the database**

**$link = mysqli\_connect("localhost","Rohan","","practice");**

**S**

**if(mysqli\_connect\_error())**

**{**

**die("There was an error in database connection.");**

**}**

**// if there is an array key 'email' and 'password'**

**if(array\_key\_exists('email',$\_POST) OR array\_key\_exists('password',$\_POST))**

**{**

**if($\_POST["email"] == '')**

**{**

**echo "<p>Email is required.</p>";**

**}**

**else if($\_POST["name"] == '')**

**{**

**echo "<p>Name is required</p>";**

**}**

**else if ($\_POST["password"] == '')**

**{**

**echo "<p>Password is required</p>";**

**}**

**else**

**{**

**// select id from database whose email is same as users**

**$query = "SELECT `id` FROM `users` WHERE email = '".mysqli\_real\_escape\_string($link,$\_POST["email"])."'";**

**// storing the query in variable result**

**$result = mysqli\_query($link, $query);**

**// if the number of rows in result greater than zero?**

**if (mysqli\_num\_rows($result)>0)**

**{**

**echo"<p>Email is already registered.</p>";**

**}**

**else**

**{**

**// Insert the name, email and password provided by the user into the database.**

**$query = "INSERT INTO `users` (`name`,`email`,`password`) VALUES ('".mysqli\_real\_escape\_string($link,$\_POST["name"])."','".mysqli\_real\_escape\_string($link,$\_POST["email"])."','".mysqli\_real\_escape\_string($link,$\_POST["password"])."')";**

**// if the query is succesfull**

**if(mysqli\_query($link,$query))**

**{**

**// creating session variable named userEmail and assigning the email address to it.**

**$\_SESSION['userEmail'] = $\_POST['email'];**

**// redirect to other page: session.php**

**header("Location: session.php");**

**}**

**else**

**{**

**echo"<p>There was a problem. Please try again later</p>";**

**}**

**}**

**}**

**}**

**?>**

**We also have session.php file stored in the same location as index.php which contains:**

**<?php**

**// starting session**

**session\_start();**

**// if there is the session variable named userEmail**

**if($\_SESSION['userEmail'])**

**{**

**echo "You are succesfully logged in";**

**}**

**else**

**{**

**// Go back to index.php i.e login page**

**header("Location: index.php");**

**}**

**?>**