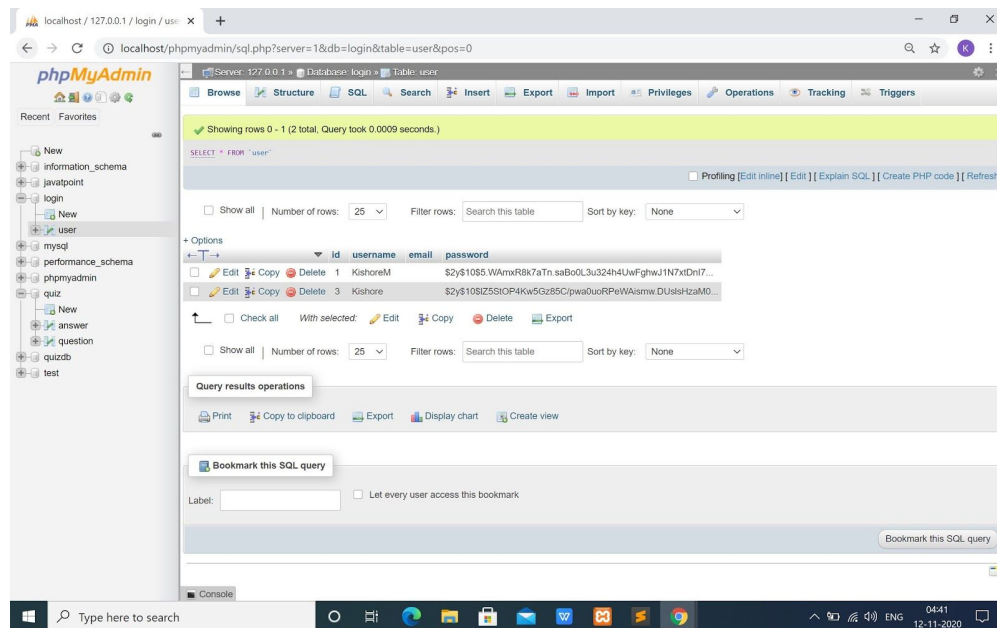


Exercise 9 - Online Quiz using PHP/MySQL

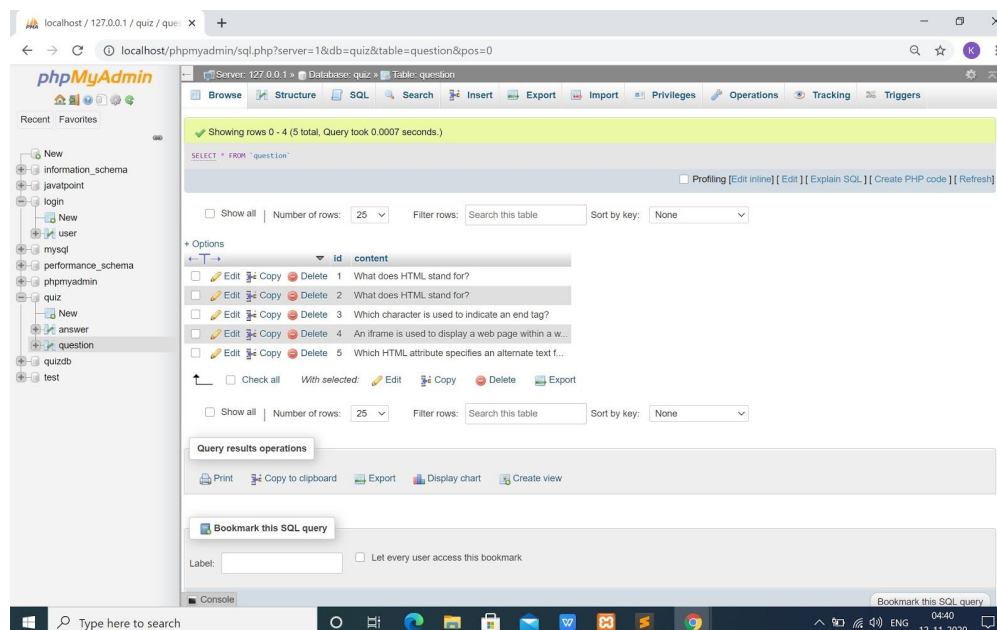
(By : kishore M RA1711003040141)

1.PHP/My SQL details

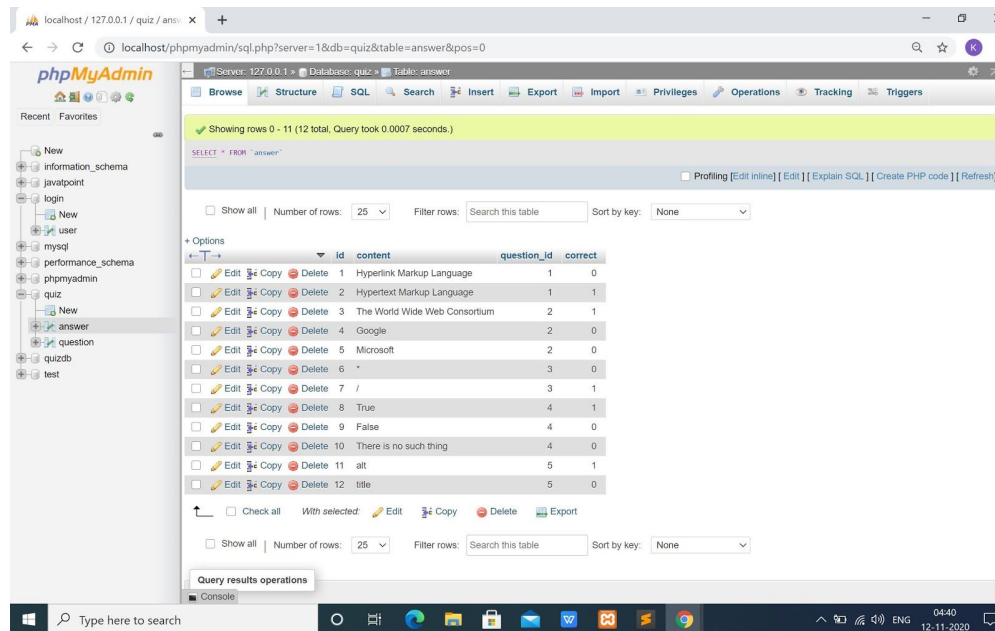
1.1 User registration details :



1.2 Questions :



1.3 Answers



2. PHP Codes

2.1 Registration PHP code:

```
<?php
// Include config file
require_once "config.php";

// Define variables and initialize with empty values
$username = $password = $confirm_password = "";
$username_err = $password_err = $confirm_password_err = "";

// Processing form data when form is submitted
if($_SERVER["REQUEST_METHOD"] == "POST"){

    // Validate username
    if(empty(trim($_POST["username"]))){
        $username_err = "Please enter a username.";
    } else{
        // Prepare a select statement
        $sql = "SELECT id FROM user WHERE username = :username";

        if($stmt = $pdo->prepare($sql)){
            // Bind variables to the prepared statement as parameters
```

```

$stmt->bindParam(":username", $param_username, PDO::PARAM_STR);

// Set parameters
$param_username = trim($_POST["username"]);

// Attempt to execute the prepared statement
if($stmt->execute()){
    if($stmt->rowCount() == 1){
        $username_err = "This username is already taken.";
    } else{
        $username = trim($_POST["username"]);
    }
} else{
    echo "Oops! Something went wrong. Please try again later.";
}

// Close statement
unset($stmt);
}
}

// Validate password
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"]);
}

// Validate confirm 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.";
    }
}

// Check input errors before inserting in database
if(empty($username_err) && empty($password_err) && empty($confirm_password_err)){

    // Prepare an insert statement

```

```

$sql = "INSERT INTO user (username, password) VALUES (:username, :password)";

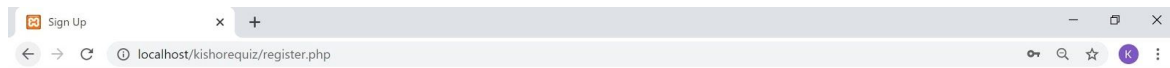
if($stmt = $pdo->prepare($sql)){
    // Bind variables to the prepared statement as parameters
    $stmt->bindParam(":username", $param_username, PDO::PARAM_STR);
    $stmt->bindParam(":password", $param_password, PDO::PARAM_STR);
    $param_username = $username;
    $param_password = password_hash($password, PASSWORD_DEFAULT);
    if($stmt->execute()){
        header("location: login.php");
    } else{
        echo "Something went wrong. Please try again later.";
    }
    unset($stmt);
}
unset($pdo);
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Sign Up</title>
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.css">
    <style type="text/css">
        body{ font: 14px sans-serif; }
        .wrapper
{margin-right:auto;margin-left:auto;max-width:600px;padding-right:10px;padding-left:10px;
margin-top:200px;margin-bottom:auto;}
    </style>
</head>
<body>
    <div class="wrapper">
        <h2>Sign Up</h2>
        <p>Please fill this form to create an account.</p>
        <form action="<?php echo htmlspecialchars($_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>

```



Sign Up

Please fill this form to create an account.

Username

Password

Confirm Password

Already have an account? [Login here.](#)



2.2 Login PHP code :

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

// Check if the user is already logged in, if yes then redirect him to welcome page
if(isset($_SESSION["loggedin"]) && $_SESSION["loggedin"] === true){
    header("location: welcome.php");
    exit;
}

// Include config file
require_once "config.php";

// Define variables and initialize with empty values
$username = $password = "";
$username_err = $password_err = "";

// Processing form data when form is submitted
if($_SERVER["REQUEST_METHOD"] == "POST"){

    // Check if username is empty
    if(empty(trim($_POST["username"]))) {
        $username_err = "Please enter username.";
    } else{
        $username = trim($_POST["username"]);
    }

    // Check if password is empty
    if(empty(trim($_POST["password"]))) {
        $password_err = "Please enter your password.";
    } else{
        $password = trim($_POST["password"]);
    }

    // Validate credentials
    if(empty($username_err) && empty($password_err)){
        // Prepare a select statement
        $sql = "SELECT id, username, password FROM user WHERE username = :username";

        if($stmt = $pdo->prepare($sql)){
            // Bind variables to the prepared statement as parameters
            $stmt->bindParam(":username", $param_username, PDO::PARAM_STR);
```

```

// Set parameters
$param_username = trim($_POST["username"]);

// Attempt to execute the prepared statement
if($stmt->execute()){
    // Check if username exists, if yes then verify password
    if($stmt->rowCount() == 1){
        if($row = $stmt->fetch()){
            $id = $row["id"];
            $username = $row["username"];
            $hashed_password = $row["password"];
            if(password_verify($password, $hashed_password)){
                // Password is correct, so start a new session
                session_start();

                // Store data in session variables
                $_SESSION["loggedin"] = true;
                $_SESSION["id"] = $id;
                $_SESSION["username"] = $username;

                // Redirect user to welcome page
                header("location: welcome.php");
            } else{
                // Display an error message if password is not valid
                $password_err = "The password you entered was not valid.";
            }
        }
    } else{
        // Display an error message if username doesn't exist
        $username_err = "No account found with that username.";
    }
} else{
    echo "Oops! Something went wrong. Please try again later.";
}

// Close statement
unset($stmt);
}

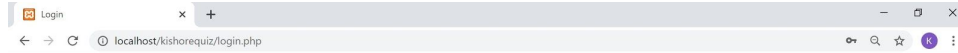
// Close connection
unset($pdo);
}
?>

```

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Login</title>
  <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.css">
  <style type="text/css">
    body{ font: 14px sans-serif; }
    .wrapper
{margin-right:auto;margin-left:auto;max-width:600px;padding-right:10px;padding-left:10px;
  margin-top:200px;margin-bottom:auto;}
  </style>
</head>
<body>
  <div class="wrapper">
    <h1>Welcome to HTML kishore's quiz</h1>
    <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>

```

Welcome to HTML kishore's quiz

Login

Please fill in your credentials to login.

Username

KishoreM

Password

Login

Don't have an account? Sign up now.



2.3 Welcome PHP code:

```
<?php
```

```
// Initialize the session
```

```
session_start();
```

```
// Check if the user is logged in, if not then redirect him to login page
```

```
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>
```

```
    <link rel="stylesheet"
```

```
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.css">
```

```
    <style type="text/css">
```

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

```
    </style>
```

```
</head>
```

```
<body>
```

```
    <div class="page-header">
```

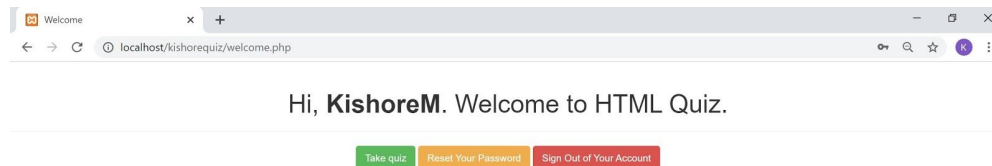
```
        <h1>Hi, <b><?php echo htmlspecialchars($_SESSION["username"]); ?></b>. Welcome to  
HTML Quiz.</h1>
```

```
    </div>
```

```

<p>
    <a href="index.php" class="btn btn-success">Take quiz</a>
    <a href="reset-password.php" class="btn btn-warning">Reset Your Password</a>
    <a href="logout.php" class="btn btn-danger">Sign Out of Your Account</a>
</p>
</body>
</html>

```



2.4 Quiz :

```

<?php
require_once 'database.php';
$stmt = $con->prepare("select * from question");
$stmt->execute();
?>
<h3>Quiz</h3>
<form method="post" action="result.php">
<ol type="1">
    <?php while($question=$stmt->fetch(PDO::FETCH_OBJ)){ ?>
        <li>
            <?php echo $question->content; ?>
            <input type="hidden" name="questionID[]" value="<?php echo
$question->id; ?>">
            <ol type="a">
                <?php
                    $stmt2 = $con->prepare("select * from answer where
question_id = :question_id");
                    $stmt2->bindValue("question_id", $question->id);
                    $stmt2->execute();
                ?>

```

```

        <?php while($answer=$stm2->fetch(PDO::FETCH_OBJ)){ ?>
            <li>
                <input type="radio" name="question_<?php echo
$question->id; ?>" value="<?php echo $answer->id; ?>">
                <?php echo $answer->content; ?>
            </li>
        <?php } ?>
    </ol>
</li>
<?php } ?>
</ol>
<br>
<input type="submit" value="Submit">
</form>

```

Quiz

- What does HTML stand for?
 - ☐ Hyperlink Markup Language
 - ☒ Hypertext Markup Language
- What does HTML stand for?
 - ☒ The World Wide Web Consortium
 - ☐ Google
 - ☐ Microsoft
- Which character is used to indicate an end tag?
 - ☐ *
 - ☒ /
 - ☐ /
- An iframe is used to display a web page within a web page.
 - ☒ True
 - ☐ False
 - ☐ There is no such thing
- Which HTML attribute specifies an alternate text for an image, if the image cannot be displayed?
 - ☒ alt
 - ☐ title

2.5 Result PHP code :

```

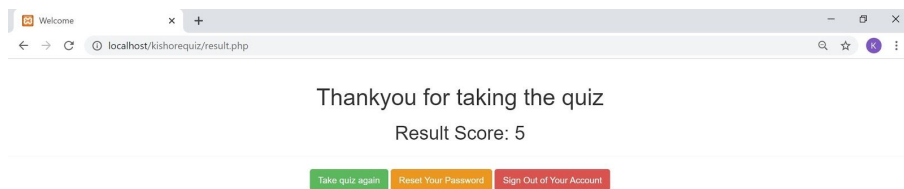
<?php
require_once 'database.php';
$score = 0;
foreach((array)$_POST['questionID'] as $questionID) {
    $stm = $con ->prepare("select * from answer where correct = 1 and question_id =
".$questionID);
    $stm ->execute();
    $answer = $stm ->fetch(PDO::FETCH_OBJ);

```

```

        if($answer->id == $_POST['question_'].$questionID]){
            $score++;
        }
    }
    ?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Welcome</title>
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.css">
    <style type="text/css">
        body{ font: 14px sans-serif; text-align: center; }
    </style>
</head>
<body>
    <div class="page-header">
        <h1>Thankyou for taking the quiz</h1>
        <h2>Result Score: <?php echo $score; ?> </h2>
    </div>
    <p>
        <a href="index.php" class="btn btn-success">Take quiz again</a>
        <a href="reset-password.php" class="btn btn-warning">Reset Your Password</a>
        <a href="logout.php" class="btn btn-danger">Sign Out of Your Account</a>
    </p>
</body>
</html>

```



2.6 Reset Password PHP code :

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

// Check if the user is logged in, if not then redirect to login page
if(!isset($_SESSION["loggedin"]) || $_SESSION["loggedin"] !== true){
    header("location: login.php");
    exit;
}

// Include config file
require_once "config.php";

// Define variables and initialize with empty values
$new_password = $confirm_password = "";
$new_password_err = $confirm_password_err = "";

// Processing form data when form is submitted
if($_SERVER["REQUEST_METHOD"] == "POST"){

    // Validate new password
    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"]);
    }

    // Validate confirm 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.";
        }
    }
}

// Check input errors before updating the database
if(empty($new_password_err) && empty($confirm_password_err)){
    // Prepare an update statement
    $sql = "UPDATE user SET password = :password WHERE id = :id";
```

```

if($stmt = $pdo->prepare($sql)){
    // Bind variables to the prepared statement as parameters
    $stmt->bindParam(":password", $param_password, PDO::PARAM_STR);
    $stmt->bindParam(":id", $param_id, PDO::PARAM_INT);

    // Set parameters
    $param_password = password_hash($new_password, PASSWORD_DEFAULT);
    $param_id = $_SESSION["id"];

    // Attempt to execute the prepared statement
    if($stmt->execute()){
        // Password updated successfully. Destroy the session, and redirect to login page
        session_destroy();
        header("location: login.php");
        exit();
    } else{
        echo "Oops! Something went wrong. Please try again later.";
    }

    // Close statement
    unset($stmt);
}

// Close connection
unset($pdo);
}
?>

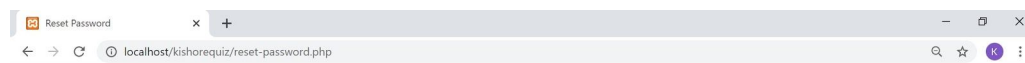
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Reset Password</title>
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.css">
    <style type="text/css">
        body{ font: 14px sans-serif; }
        .wrapper
    {margin-right:auto;margin-left:auto;max-width:600px;padding-right:10px;padding-left:10px;
        margin-top:200px;margin-bottom:auto;}
    </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>

```



Reset Password

Please fill out this form to reset your password.

New Password

Confirm Password



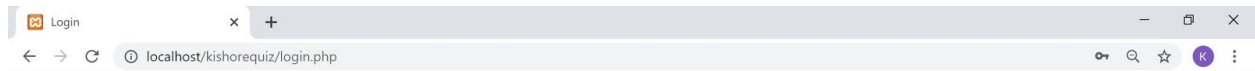
2.7 Logout PHP code:

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

// Unset all of the session variables
$_SESSION = array();

// Destroy the session.
session_destroy();

// Redirect to login page
header("location: login.php");
exit;
?>
```



Welcome to HTML kishore's quiz

Login

Please fill in your credentials to login.

Username

Password

Login

Don't have an account? Sign up now.

