**First Term Exam**

<!DOCTYPE HTML>

<html>

<head>

<style>

.error {color: #FF0000;}

</style>

</head>

<body>

<?php

// define variables and set to empty values

$nameError = $emailError = $genderError = $websiteError = "";

$name = $email = $gender = $comment = $website = "";

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

  if (empty($\_POST["name"])) {

    $nameError = "Please enter Name";

  } else {

    $name = userInput($\_POST["name"]);

    // check if name only contains letters and whitespace

    if (!preg\_match("/^[a-zA-Z-' ]\*$/",$name)) {

      $nameError = "Only letters and white spaces are allowed";

    }

  }

  if (empty($\_POST["email"])) {

    $emailError = "Please enter Email";

  } else {

    $email = userInput($\_POST["email"]);

    // check if e-mail address is well-formed

    if (!filter\_var($email, FILTER\_VALIDATE\_EMAIL)) {

      $emailError = "Invalid email format";

    }

  }

  if (empty($\_POST["website"])) {

    $website = "";

  } else {

    $website = userInput($\_POST["website"]);

    // check if URL address syntax is valid (this regular expression also allows dashes in the URL)

    if (!preg\_match("/\b(?:(?:https?|ftp):\/\/|www\.)[-a-z0-9+&@#\/%?=~\_|!:,.;]\*[-a-z0-9+&@#\/%=~\_|]/i",$website)) {

      $websiteError = "Invalid URL";

    }

  }

  if (empty($\_POST["comment"])) {

    $comment = "";

  } else {

    $comment = userInput($\_POST["comment"]);

  }

  if (empty($\_POST["gender"])) {

    $genderError = "Please enter Gender";

  } else {

    $gender = userInput($\_POST["gender"]);

  }

}

function userInput($data) {

  $data = trim($data);

  $data = stripslashes($data);

  $data = htmlspecialchars($data);

  return $data;

}

?>

<h2>PHP Form Validation Example</h2>

<p><span class="error">\* required field</span></p>

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

  Name: <input type="text" name="name" value="<?php echo $name;?>">

  <span class="error">\* <?php echo $nameError;?></span>

  <br><br>

  E-mail: <input type="text" name="email" value="<?php echo $email;?>">

  <span class="error">\* <?php echo $emailError;?></span>

  <br><br>

  Website: <input type="text" name="website" value="<?php echo $website;?>">

  <span class="error"><?php echo $websiteError;?></span>

  <br><br>

  Comment: <textarea name="comment" rows="5" cols="40"><?php echo $comment;?></textarea>

  <br><br>

  Gender:

  <input type="radio" name="gender" <?php if (isset($gender) && $gender=="female") echo "checked";?> value="female">Female

  <input type="radio" name="gender" <?php if (isset($gender) && $gender=="male") echo "checked";?> value="male">Male

  <input type="radio" name="gender" <?php if (isset($gender) && $gender=="other") echo "checked";?> value="other">Other

  <span class="error">\* <?php echo $genderError;?></span>

  <br><br>

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

</form>

<?php

echo "<h2>Your Input:</h2>";

echo $name;

echo "<br>";

echo $email;

echo "<br>";

echo $website;

echo "<br>";

echo $comment;

echo "<br>";

echo $gender;

?>

</body>

</html>