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sem-I section-C subject Name - End term Practical
subject code- PMC-103 Scripting languages & R Programming.

Ques.- Define a Method name as validate() to check Any blank entry any input field : if so then display all unfilled fields in a single Alert box.

Ans

Objective.- To understand About Javascript to make web Pages interactive.

Description.- Javascript is a text-based Programming language used both on the client-side And server side that Allows us to Make web Pages interactive.

Source code.-

```
<!DOCTYPE html>
<html>
<head>
<script type = "text/javascript">
function validate() {

  var x = document.forms["myForm"]["name"].value;
  if ( x == null || x == "")
  {
   alert ("Name Must be filled out");
   return False;
  }
```

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```
var y = document.forms["myForm"]["password"].
                                        value;
if(y==null || y=="") {
    alert("Password Must be filled out");
    return false;
}

var z = document.forms["myForm"]["email"].value;
if(z==null || z=="") {
    alert("Email Must be filled out");
    return False;
}
}
</script></head>
<body>
<form name="myForm" onsubmit="return validate()">
Name*: <input type="text" name="name"><br>
Password*: <input type="password" name="password">
<br>
Email*: <input type="text" name="email"><br>
<input type="submit" value="submit">
</form>
</body>
</html>
```

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Ques.- Create a student Registration in PHP And save And display The student Records.

Ans Objective :- To Understand About PHP to make Pages interactive.

Description.- PHP (HyperText Preprocessor) is known as a general-purpose scripting language that can be used to develope dynamic And interactive websites.

source code.- Registration.php.

```
<html>
<head>
<title> Registration Form </title>
<style>
tr:nth-child(even) { background-color : lightblue }
th {
  background-color : black ; color : white ;
  }
th, td {
    padding : 15px ;
    }
</style>
</head>
<body>
<br> <br>
<center>
<form name = "frmRegistration" method = "post"
 action = " action.php ">
```

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```
<table border = "0"  width = "800" align = "center">
<tr><th colspan = 2> Registration Form </th></tr>
<tr><td> Username </td>
<td> <input type = "text" name = "userName" value = " ">
</td></tr>
<tr><td> First Name </td>
<td><input type = "text" name = "firstName" value = " ">
</td></tr>
<tr><td> Last Name </td>
<tr><input type = "text" name = "lastName" value = "">
</td></tr>
<tr><td> Password></td>
<td> <input type = "password" name = "password" value = " ">
</td></tr>
<tr><td> Confirm Password </td>
<td><input type = "password" name = "confirm_password" value = "">
</td></tr>
<tr><td> Email </td>
<td><input type = "text" name = "userEmail"> </td>
</tr>
<tr><td> Gender </td>
<td> <input type = "radio" name = "gender" id = gender"
    value = "male"> Male
<input type = "radio" name = "gender" id = "gender"
    value = "Female"> Female </td></tr>
<tr>
<td></td>
<td> <input type = "checkbox" name = "terms"> |
    Accept terms And conditions </td>
</tr>
```

```
<tr> <th colspan = 2 >
<div> <input type = "submit" name = "submit"
    value = "Register" > </div>
    </th> </tr>
  </table>
  </form>
  </body>
  </html>
```

action.php

```
<html>
<head>
<title> Registrationform </title>
<style>
tr:nth-child(even) { background-color: #f2f2f2 } th {
 background-color #4CAF50
 color: white;
 }
 th td {
 padding: 15px;
 }
</style>
</head>
<body>
<center>
<br> <br>
<?php
 foreach ($_POST as $key => $value) { if (empty ($_POST
                                    [$key])) {
 $message = ucwords($key) . " field is required"; break;
 } }
```

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```
/* password Matching validation */
if ($_POST['password'] != $_POST['confirm_password'])
{
$message = "Passwords should be same <br>";
}

/* Email validation */ if (!isset($message)){
if (!filter_var($_POST["userEmail"], Filter
FILTER_VALIDATE_EMAIL)){
$message = "invalid UserEmail";
}
}

/* validation to check gender */ if (!isset($message))
{
if (!isset($_POST["gender"])){
$message = "Gender field is required";
}
}

Print ("<table width='700'><tr><th colspan=2>
Registration details </th></tr>");

Print("<tr><td align='right'>User Name :</td>
<td>".
$_POST["userName"]. </td></tr>");
```

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```
Print ("<tr> <td Align='right'>First Name : </td>
<td>". $_POST["fistName"]. </td></tr>");

Print ("<tr> <td align='right'> last Name :</td>
<td>". $_POST ["lastName"]. </td></tr>");

Print ("<tr> <td align='right'> Email : </td>
<td>". $_POST ["userEmail"] . </td></tr>");

Print ("<tr> <td align='right'> Gender : </td><td>".
$_POST ["gender"]. </td></tr>");

Print ("<tr><th colspan=2> </th></tr></table>

</body>
</html>");

?>
```

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Que 3.- Analyze any csv dataset using R.

Ans — Plotting the Graphs from Earthquakes.csv

Setting of working directory
- setwd("C:/Users/nikki/Statistics")

Reading of .csv file
- mydata <- read.csv('Earthquakes.csv')
mydata.

Installing ggplot package
- install.packages("ggplot2")
this package is important for plotting graphs
And charts few of them are will be shown below.

Using ggplot() library
- library(ggplot2)

Histogram
- ggplot(mydata, aes(y = pitcher, x = month)) +
geom_bar(stat = "identity")

Piechart
- ggplot(mydata, aes(y = "", fill = region
x = pitcher)) + geom_bar(width = 1, stat =
"identity") + coord_polar("x", start = 0)

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boxplot

- ggplot(mydata, aes(x= month, y=pitcher)) + geom_boxplot()

scatterplotting

- ggplot(mydata aes(x= month, y= pitcher)) + geom_point()

line Graph

- ggplot(mydata, aes(y=pitcher, x= region, group= deaths, colour = deaths)) + geom_line() + geom_point()

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Qu.- Discuss Descriptive And Infrential statistics of Above dataset.

Ans Descriptive statistics

The Descriptive statistics of this dataset aims at Preparedness towards Earthquake hazards And to mitigate seismic risk. In this Project we Mainly focus on ggplot2 library to gain insights About Earthquake Magnitude And The Earthquake Affected Areas.

It Aims to use Observed Eq Earthquake forerunners And crustal changes to develope Methods for Earthquake warnings on a long-term And short term basis.

This dataset is used to Analyse the data Through graph, pie chart bas line graph, line chart etc. which is used to develope Methodology which can be Applied to Mitigate risks Anywhere.

So, The overall objective is to develope the technology And understanding Need for warning where, when And how large Earthquakes will strike.

from the Above data set we take we can ~~take~~ Calculate some things like. In which year Earthquake hits the Most.

1st quartile - 1968
Median - 1976
Mean - 1978
3rd quastile - 1999

Inferential statistics

It uses a small group of small sample of data to draw inferences About the largest population that the sample are from.
it would take too long time And to be Expensive to Actually survey Every thing.