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Course : MCA I^st Sem Sec : D
Subject : Scripting Languages & R
Subject Code : PMC-103

Qn1 Define a method name as "validate()"

Source code :

```
<html>
<head>
<title> Validate for Non-empty " </title>
<script>
function validate() {
 If( document.getElementById('fname').value == "" &&
 document.getElementById('mname').value == "" &&
 document.getElementById('lname').value == "" )
{ alert (" First Name, Middle Name & Last Name are Empty");
}
else If ( document.getElementById('fname').value == "" )
{ if (document.getElementById('mname').value == "")
  { alert(" First Name, Middle Name are Empty");
  }else if(document.getElementById('lname').value == "")
  {
   alert ('First name & Last name are Empty");
  }else { alert ("First Middle name is Empty"); }
}
```

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```
else if (document.getElementById('mname').value == " ")
{ if (document.getElementById('lname').value == " ")
  { alert ("Middle name & last name are Empty");
  }
  else {alert("Middle name is Empty"); }
else if(document.getElementById("lname").value == " ")
  {alert(" last name is Empty"); }
</script> </head>

<body>
<h1> Validating data </h1>
First Name : <input type="text" id="fname" name="fname">
<br>
Middle Name : <input type="text" id="mname" name="mname"><br>
last Name : <input type='text' id="lname" name="lname"><br>
<input type='Button" onclick="validate()" value="send data">
~~Submit value~~= Submit.
</body>
</html>
```

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Qu2 Create a Student Registration form in PHP & Save and display the student Records

Objective: To understand the use of PHP to Save and Display records.

Source Code:

```
<html>
<head> <title> Registration form </title>
</head>

<body>
<h2> Student Registration form </h2>
<form method = get action = " " >
Enter student Name : <input type = text name = t1 value = "
<? php if (isset ($_GET['t1'])) echo $_GET['t1']; ?>"> </br>
Enter Student Roll no : <input type = text name = t2 value = "
<? php if (isset ($_GET['t2"])) echo $_GET['t2']; ?>"> </br>
Enter Class : <input type = text name = t3 value = " <php if (isset
($_GET['t3'])) echo $_GET['t3']; ?>"> </br>
Enter Age : <input type = text name = t4 value = "<? php
if (isset ($_GET['t4'])) echo $_GET['t4']; ?>"></br>
Enter Address : <input type = text name = t5 value "<? php
if (isset ($_GET['t5'])) echo $_GET['t5']; ?>"> </br>
<input type = submit value = submit></br>
</form>
</body>
</html>
```

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```php
<?php
 if(isset($_GET['t1']))
{
 if($name==" "||$rodl==" "||$class==" "||$age==" "
 ||$add==" ")
{
 echo "All field are compulsory:";
}
else
{
  $name = $_GET['t1'];
  $rodl no = $_GET['t2'];
  $class = $_GET['t3'];
  $age = $_GET['t4'];
  $address = $_GET['t5'];
  echo "<h1> Student Information </h1> </br>";
  echo "Student Name : $name </br>";
  echo "Student Roll no: $roll </br>";
  echo "Student Class : $class </br>";
  echo "Student Age : $age </br>";
  echo "Student Address : $add </br>";
}
}
?>
```

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Qus3 Analyze any csv dataset using R.

Objective : To analyze a csv dataset ("Main Data") using R'.

Code :

```
# setting the primary working Directory
setwd("E:/Rfiles")

# importing libraries required
library(dplyr)
library(ggplot2)

# importing CSV file
Data <- read.csv("E:/Rfiles/MainData.csv")

#Analysis
names(Data)
[1] "Name"  "Author"  "Units Sold"  "Price"  "Year"
[6] "Genre"

str(Data)
'data.frame': 72 obs. of 6 variables
 $ Name : chr - -
 $ Author :
 $ Units sold :
 $ Price :
 $ Year :
 $ Genre:
```

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dim(Data)

[1] 72 6

tells about rows and column of Dataset

summary(Data)

Name :	Author	Units Sold
Length : 72	Length : 72	Min : 37
Class : character	Class : character	1st Qu. : 3107
Mode : character	Mode : character	Median : 6226
		Mean : 9.643
		3rd Qu. : 12652
		Max. : 61133

Year	Genre
Min : 2009	Length : 72
1st Qu. : 2011	Class : character
Max : 2019	Mode : character

- Plotting

hist(Data$Year) # No. of books sold every year.

boxplot(Data$Units.sold) # tells statistical analysis of sold.

plot(Data$Year, Data$Units.Sold)

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Qn 4 Discuss Descriptive and Inferential Statistics of above dataset.

Descriptive stastictis:

In descriptive stastictis, On the collected data we discuss about the data and talk of about observation that can be clearly see seen in data such as Unit sold by each author, which book sold in which year.

Characteristic Properties of data using mean/median/mode

for Units Sold

Data of Units sold

- Min: 37
  lowest no. of books sold is 37.
- Meadian: 6226
  It lies in the centre of high & low
- Mean: 9643
  It is average no. of books sold
- Max: 61133
  Highest no. of books sold by any author.

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Inferential Stastistics:

In inferential stastistics a data is collected and is analyzed to make judgements or claims about the sample. for example, which year had largest no. of books released, which author had high no. of books sold.

hist(Data$Year)

This graph shows No. of books released every year.

- and 2009 was most promising for books. and there is gradual decrease in books released

stripchart(Data$Price)

- This graph shows most books are released in price range of 10 to 40 $. and very less books are sold in price of 100$.

barplot(Data$Units_sold)

Book by J.k rolling has highest no. of units sold.

piechart(Data$Genre)

People prefer Nfiction over non-fiction

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