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Subject Name : SL & R End term lab Exam

Date : 15-03-2022
Sem : I
Section : C
Subject Code : PMC-103

Q:1 Ans → A Javascript function to validate form fields, if form contains empty fields that the function alerts the user.

The form has name form and contains field named a, b, c and d.

Code :

```
<Script type = "text/ javascript ">
function validateForm () {
var a = document.forms ["form "]["a "].value;
Var b = document.forms ["form "]["b "].value;
Var c = document.forms ["form "]["c "].value;
var d = document.forms ["form "]["d "].value;
  Var value = True
  Var msg = "Enter given fields : ";
  if (a == " ") {
      msg += "a ";
      value = false;
  }
 if (b == " ") {
      msg += "b ";
     value = false;
 }
```

```
if ( c == " "){
      msg += "c ";
      value = false ;
  }
  if (d == " "){
      msg += "d";
      value = false ;
  }
  if (!value)
    alert(msg);
   return value ;
}
</script>
<form method = "post" name = "form" onsubmit= "return
      validate form ()" action = " ">
   <textarea cols = "30". rows = "2" name = "a">
    </textarea>
   <textarea cols = "30" rows = "2" name = "b">
   </textarea>
   <textarea cols = "30" rows = "2" name = "c">
   </textarea>
   <textarea cols = "30" rows = "2" name = "d">
   </textarea>
   </form>
```

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Q.1. Ans-1 Student Registration in PHP :

```
<!DOCTYPE html>
<html lang = "en">
<head>
 <meta Charset = "Utf-8">
 <title> PHP Registration Form </title>
</head>
<body>
<h1> PHP Registration Form </h1>
<form method = "POST">
<table>
<tr>
  <td> Colspan = "2"> <? php echo @$msg; ?> </td>
</tr>
<tr>
  <td> <b> Student Name </b> </td>
  <td>
  <input type = "text" Placeholder = "Student Name">
  </td>
</tr>
```

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```
<tr>
  <td><b> Enter your Email </b></td>
  <td> < input type = " email " Placeholder = " Enter
       Email "> </td>
</tr>
<tr>
  <td><b> Enter Password </b></td>
  <td><input type = "Password "></td>
</tr>
<tr>
  <td><b> Enter your Address </b> </td>
  <td> < textarea name = "add "> Enter Address
     </textarea> </td>
</tr>
<tr>
  <td><b> Gender </b></td>
  <td>
  Male < input type = " radio " >
  Female < input type = " radio " >
  </td>
</tr>
<tr>
  <td><b> Select Date of Birth </td> </b></td>
  <td>
   < Select name = "mm ">
```

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```
<option > Month </option>
<?PHP>
for( $i = 1; $ i<=12; $ i++)
{
echo "<option value = '$i'>". $ i. "</option>";
}
?>
</Select>
<Select name = "dd">
<option value = " ">Date </option>
<? PHP
for ($i = 1; $i<=31; $i++)
{
echo "<option value = '$i'>.$i."</option> ";
}
?>
</Select>
<Select name = "YY">
<option value = " "> Year <option>
<?PHP>
<for ($i = 1900; $i<=2015; $i++)
{
echo "<option value = '$i'> ". $i. "</option>";
}
?>
</Select>
</td>
</tr>
```

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```
<tr>
  <td colspan="2" align="center">
  <input type="Submit">
  <input type="reset">
</td>
</tr>
</table>
</form>
</body>
</html>
<?php
extract($_POST);
if(isset($save))
{
$dob=$yy."-".$mm."--".$dd;
$h=implode(",",$hobb);

if($return)
{
$msg="<font color='red'>".ucfirst($e)."
      already exists choose another email</font>";
}
else
{
$msg="<font color='blue'>your data saved</font>";
}
}
?>
```

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Q.3 Ans -) We're using here Titanic dataset to analyze:

load data:

=> titanic <- read.csv("c:/users/Desktop/titanic.csv", header = TRUE, sep = ",")

Peak at your data:

=> View(titanic)
This help us for familiarity with the data set.

=> head(titanic, 10)
return first 10 rows.

=> tail(titanic, 10)
return Bottom, 10, rows.

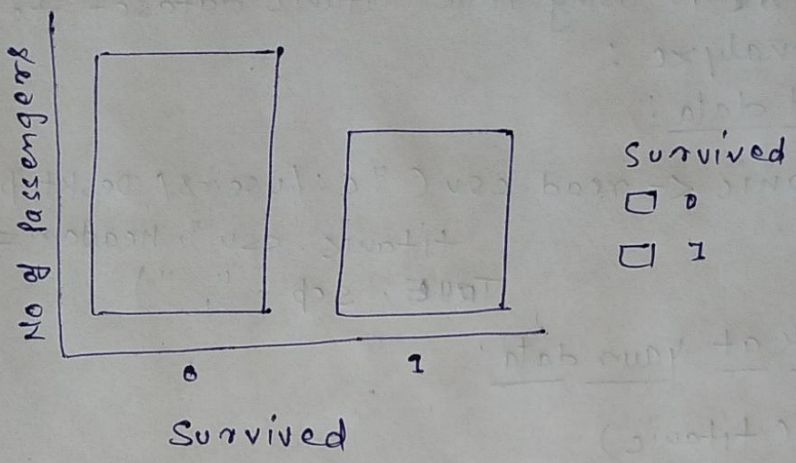
=> names(titanic)
This helps us is checking out all the variables in the data set.

=> Summary(titanic)
It is one of the most important functions that help in summarising each attribute in the dataset. It given the descriptive Statistics of the data.

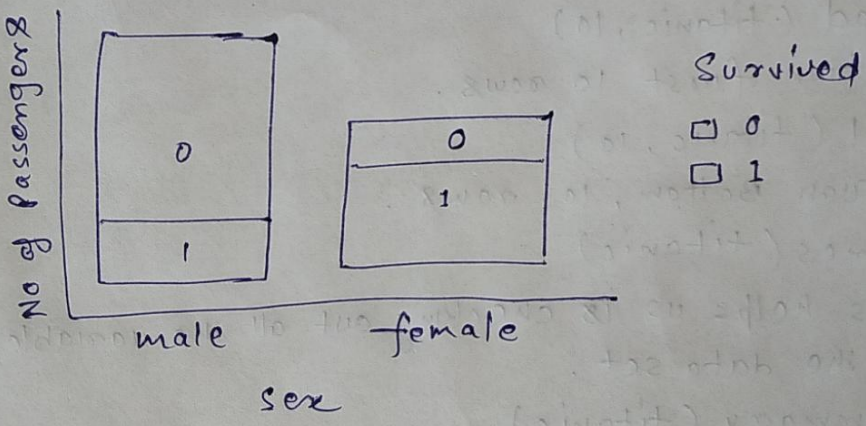
Analysis & Visualizations:

- Survival rate :

```
gg plot (titanic, aes(x = Survived)) + geom. bar()
```



- Survival rate based gender :




```
ggplot(titanic, aes(x = Sex, fill = Survived)) +
    theme bw() + geom_bar() +
    labs(y = "Number of Passengers",
         title = "Survival Rate by Gender")
```

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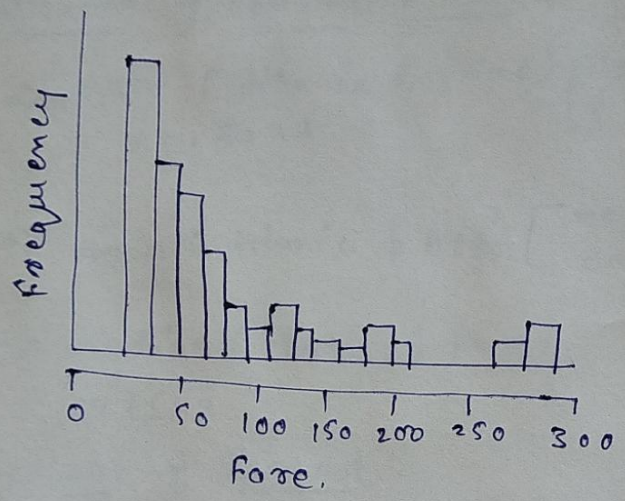
Distribution of fare rate :

hist (titanic $ fare, main = " fare Per Person ",
x lab = " fare ",
col = " grey " breaks . 40, x lim = c(0, 300))

Fare Per Person



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Q.4 Ans → Descriptive Statistics:

Summary: Gives us the descriptive stats like.

In case of Numerical data:

Gives mean, mode, median, Range.

Measure of central Tendency:

=> mean (titanic $ fare) [on Average person spent $32 to board the titanic]
32.20421

=> mode (titanic $ Age) [most common age on titanic]
24

=> median (train $ fare)
14.542

Measure of Spread:

=> range (titanic $ fare) [It shows lowest and higest value of fare]
0.000 512.3292

=> var (titanic $ fare)
2469.437

=> Sqrt (var (titanic $ Fare))
49.69343

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Inferential Statistics :

- Hypothesis Testing :

```
new.data <- subset(titanic, titanic$Pclass == 1)

z.test2 = function(a, b, n) {
  Samplemean = mean(a)
  pop mean = mean(b)
    c = nrow(n)
  var b = var(b)
 zeta = (Sample.mean - pop_mean)/sqrt
          (var.b/c))
  return zeta.
```

Call function.

```
z.test2(new.data$Survival, titanic$
    Survival, new.data)
-1.423828
```

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