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Paper - Scripting Language and R lab

Paper Code - PMC 103

Ans-1

```
<html>
<head> Validate Method </head>
<body>
<form name="myform" action="/action_page.php"
onsubmit="return validate()" method="post">
Name: <input type="text" name="fname"><br>
Password: <input type="password" name="pass"><br>
Course: <input type="text" name="course"><br>
<input type="submit" value="submit">
<script>
function validate()
let x = document.forms["myform"]["fname"].value;
let x1 = document.forms["myform"]["pass"].value;
let x2 = document.forms["myform"]["course"].value;
```

```
{
   alert ("Name , password , course must be filled out");
}
else if (x=="" && x1 =="")
{
   alert("Name, password must be filled out");
}
else if (x=="" && x2 =="")
{
   alert ("Name , course must be filled out");
}
else if (x1=="" && x2=="")
{
   alert ("Password, Course must be filled out");
}
else if (x=="")
{
   alert ("Name must be filled out");
}
else if (x2=="")
{
   alert ("Password must be filled out");
}
return false;
}
</script>
</form>
</body>
</html>
```

Ans-2 Registration Form

```
<!DOCTYPE html>
<html lang="en">
 <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width">
 <title> PHP Registration Form </title>
 </head>
 <body>
 <h1> PHP Registration Form </h1>
 <form method="post" enctype="multipart/form-data"
  action=?#?>
 <table>
 <tr>
     <td colspan="2"><?php echo @$msg;?></td>
  </tr>
  <tr>
      <td> Enter your Name </td>
      <td><input type="text" placeholder="Enter name"
           required></td>
   </tr>
   <tr>
       <td> Enter your Email </td>
       <td><input type="email" placeholder="Enter email">
       </td>
```

```
    <td> Enter Password </td>
    <td><input type="password" name="p"></td>
</tr>
<tr>
    <td> Enter Mobile No. </td>
    <td> <input type="text" pattern="[0-9]*"
        name="m"></td>
</tr>
<tr>
    <td> Enter Gender </td>
    <td>
        Male <input type="radio" name="g" value="m">
        Female <input type="radio" name="g" value="f">
    </td>
</tr>
<tr>
    <td> Select your Profile pic </td>
    <td> <input type="file" name="pic"> </td>
</tr>
<tr>
    <input type="submit" name="save" value="Register">
    <input type="reset" value="Reset">
</tr>
```

```
</form>
<?php
    if(isset($_POST['create'])){
        echo 'User submitted';
    }
    ?>
</body>
</html>
```

Ans-3

```
# dplyr library function
library (dplyr)
setwd ("G:/MCA")
mydata <- read.csv ("vehicles.csv")
mydata
# Descriptive statistics
~~sty~~ summary (mydata)
    dim (mydata)
    str (mydata)
    names (mydata)
# Select function
mysubdata <- select (mydata, cars, average)
mysubdata
# filter and arrange function
mysubdata1 <- filter (mydata, average >40)
mysubdata1
mysubdata2 <- arrange (mydata, desc (average))
mysubdata3 <- arrange (mydata, desc (speed))
```

```
# Top and Bottom 5 Average Cars

head (mysubdata2)
tail (mysubdata2)

# mutate function (to add a column to dataset)

mydata <- mutate (mydata, model = year)

# Different plot of Dataset

# Histogram

hist (mydata$average, cd = c('blue', 'green', 'red')
xlab = "Average", ylab = "Cars", break = 50)

# Scattered Plot

plot (mydata$speed, col = c('blue', 'green', 'red')
      xlab = "cars", ylab = "speed")

# Barplot

barplot (mydata$average, col = c('blue', 'green', 'red')
         xlab = "cars", ylab = "average")

# Boxplot

boxplot (mydata$average, col = c('blue', 'green', 'red')
         xlab = "cars", ylab = "average")
```

ns-4 # Descriptive Statistics

```
summary (mydata)
dim (mydata)
str (mydata)
names (mydata)
```

Inferential statistics

① Chi-squared test

```
model <- chisq.test(mydata)
model
```

output p-value = 0.334263 > 0.05

Thus, 'mydata' is highly correlated and we accept the null hypothesis.

② # Correlation Coefficient

```
cor(mydata $ cars, mydata $ average)
```

Output 0.97534 > 0.8

Thus cars and average is strongly correlated to each other

3) Anova Test

```
mysubdata4 <- aov(mydata$average ~ mydata$spud)
mysubdata4
```

Output Pr(>F) is 0.0014 as this value is less than 0.05 then we reject NULL Hypothesis and accept alternative hypothesis.

4) T-test

This gives us the T-score for the dataset

```
t.test(mydata, mu=100)
```

Here p-value is 0.334263 > 0.05

So we accept NULL Hypothesis.