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Course - MCA

Sem - 1st Sec - D

Univ Roll No - 2101247

Student ID - 21711236

Subject - Scripting language

Sub Code - PMC - 103

Ans 1) <!DOCTYPE html>

<html>

<head>

<script>

function validateForm(){

var x=document.forms["myForm"]["fname"].value;

if(x==" " || x==null){

alert("Name must be filled out");

return false;

}

}

</script>

</head>

<body>

<h2>JavaScript Validation for empty input field</h2>

<p>Try to submit the form without entering any text.</p>

<form name="myForm" action="/action_page.php" onsubmit="return validateForm()" method="post" required>

Name: <input type="text" name="fname">

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

</form>

</body>

</html>

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Ans(2)

```
<!DOCTYPE html>
<html><head>
<title> Student Registration form </title>
</head>
<body style="background-color: "
<form action = "<?php $_PHP_SELF ?>" method = "POST">
Name :
<input type = "text" name = "txtname">
<br><br>
Roll No:
<input type = "text" name = "txtroll-no">
<br><br>
Gender:
<input type = "text" name = "gender">
<br><br>
Address:
<text area name = "address" type = "text area"></text area>
<br><br>
<input type = "Submit" value = "insert" value = "Save">
<input type = "Reset" value = "Cancel">
<input type = /form>
</body>
</html>
```

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```

<?php
if(isset($_POST['insert']))
{
    $con=mysql_connect("localhost","root","");
    if($con)
    {
        echo "MySQL connection OK<br>";
        mysql_select_db("studinfo", $con);
        $name = stripslashes($_POST['txtname']);
        $rollno = intval($_POST["txtroll-no"]);
        $gender = stripslashes($_POST['gender']);
        $address = stripslashes($_POST['address']);
        $insert = "insert into info values ('$name', $rollno, '$gender', '$address')";
        if(mysql_query($insert, $con))
        {
            echo "Data inserted successfully<br>";
        }
        $query = "select * from info";
        $sldt = mysql_query($query, $con);
        echo "<table border = '1'>
        <tr>
            <th> Name </th>
            <th> Roll No </th>
            <th> Gender </th>
            <th> Address </th>
        </tr>";
    }
}

```

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```
while ($row = mysql_fetch_array($sldt))
{
    echo "<tr>";
    echo "<td>". $row['name']. "</td>";
    echo "<td>". $row['rollno']. "</td>";
    echo "<td>". $row['gender']. "</td>";
    echo "<td>". $row['address']. "</td>";
    echo "</tr>";
}
echo "</table>";
mysql_close($con);
}
}
?>
```

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Ans(3) # Dplyr library function

library(dplyr)

Setwd("G:/MCA")

mydata <- read.csv("vehicle.csv")

mydata

Descriptive Statistics

summary(mydata)

dim(mydata)

str(mydata)

names(mydata)

Select function

mysubdata <- select(mydata, cars, average)

mysubdata

filter & arrange function

mysubdata1 <- filter(mydata, average > 40)

mysubdata1

mysubdata2 <- arrange(mydata, desc(average))

mysubdata3 <- arrange(mydata, desc(speed))

Top & bottom 5 average cars.

head(mysubdata2)

tail(mysubdata2)

mutate function (to add a column to dataset)

mydata <- mutate(mydata, model = year)

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Different Plot of Dataset

histogram

```
hist(mydata$average, col = 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")
```


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Ans(4) # Descriptive Statistics
summary(mydata)
dim(mydata)
str(mydata)
names(mydata)

inferential Statistics
(i) 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 & average is strongly correlated to each other

3) Anova test

mySubdata4 <- aov(mydata\$average ~ mydata\$speed)
mySubdata4

output Pr(>P) is 0.0014 as this value is less than 0.05 then we reject

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NULL Hypothesis and accept the 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 the NULL Hypothesis

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