Name - Sudhakar Kuniyal Univ. Roll No - 2101228 Student ID - 21711235
Paper Name - Scripting Language Paper Code - PMC103 Course - MCA I D

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>
<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 bgcolor = "aqua">
<form action = "<?php $_PHP_SELF ?>" method = "POST">
Name :
<input type = "text" name = "txtname">
<br><br>
Roll No. :
<input type = "text" name = "txtr_no">
<br><br>
Gender :
<input type = "text" name = "gender">
<br><br>
Address :
<textarea name = "address" type = "textarea"></textarea>
<br><br>
<input type = "Submit" name = "insert" value = "Save">
<input type = "Reset" value = "Cancel">
</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);
        $name = strval($_POST['txtname']);
        $rollno = intval($_POST['gender']);
        $rollno = intval($_POST['txtr_no']);
        $gender = strval($_POST['gender']);
        $address = strval($_POST['address']);
        $insert = "insert into info values ('$name', $rollno, '$gender',
                                            '$address')";
        if(mysql_query($insert, $con))
        {
            echo "Data inserted successfully<br>";
        }
        $query = "select * form 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("E:/Sudhakar")
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 and arrange function
mysubdata <- 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)
```

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Different Plots of dataset

histogram

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

Scatter 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~~
  xlab = "cars", ylab = "average")
```

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Subject - R language

Ans. 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 co-related 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(>F) is 0.0014 as this value is less than 0.05, then we reject NULL Hypothesis. and accept the alternative Hypothesis.

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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