

Name: Shau Roman Univ. Roll. no - 2101191 Student ID - 21711239
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Ans Ans <!DOCTYPE html>

<html>

<head>

<script>

function validate form () {

var x = document. forms ["my form"]
["name"]. value ;

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

alert ("Name must be filled out ");

return false ;

}

}

Ques 2 Ans

```
<html>
<head>
<title>general form</title>
</head>
<body bgcolor = "black">
<form action = "<?php $ = $_POST?>" method = "POST">
Name :
<input type = "text" name = "txtname">
<br><br>
Rollno :
<input type = "text" name = "txt-no">
<br><br>
Gender :
<input type = "text" name = "txt-gen">
<br><br>
```

Address :

```
<textarea name = "add" type = "text"></textarea>
<br><br>
<input type = "submit" name = "Insert" value = "save">
<input type = "Reset" value = "cancel">
</form>
```

```
</body>
```

```
</html>
```

```
<?php
```

```
if (isset($_POST['insert']))
```

```
{
```

~~echo~~

```
$con = mysql_connect("localhost", "root", "");
```

```
if (!$con)
```

```
{
```

```
echo "mysql connection ok<br>";
```

```
mysql_select_db("studinfo", $con);
```

```
$name = trim($_POST['txtname']);
```

```
$rollno = trim($_POST['txt-no']);
```

```

$gender = $_POST['gender'];
$address = $_POST['add'];
$insert = "insert into info values ('$name', '$rollno', '$gender', '$address')";
If (mysql_query($insert, $con))
{
    echo "Data inserted successfully <br>";
}
$query = "select * from info";
$result = mysql_query($query, $con);
echo "<table border = '1'>";
<tr>
    <th> Name </th>
    <th> Rollno </th>
    <th> gender </th>
    <th> Address </th>
</tr>";
while ($row = mysql_fetch_array($result))
{
    echo "<tr>";
    echo "<td>". $row['name']. "</td>";
    echo "<td>". $row['rollno']. "</td>";
    echo "<td>". $row['gen']. "</td>";
    echo "<td>". $row['address']. "</td>";
    echo "</tr>";
}
echo "</table>";
mysql_close($con);
}
?>

```

Ans Ans

Dplyr library function

library (dplyr)

Setwd ("G:/PCA")

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

mydata

Descriptive Statistics

summary (mydata)

dim (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 ~~average~~ Bottom 5 average cars

head (mySubdata2)

tail (mySubdata1)

mutate function (to add a column to data set)

mydata <- mutate (mydata, model = year)

Different Plot of Data set

histogram

hist (mydata\$average, col = c ("blue", "green", "red"),

xlab = "Average", ylab = "cars", breaks = 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 = "cars", ylab = "average")

Ques Ans Descriptive statistics it describes the important characteristics (features) of the data using the measures the central tendency like mean, median, mode and the measures of dispersion like range, standard deviation, variance etc.

Data can be summarized and represented in an accurate way using charts, tables and graphs.

Descriptive statistics summarizes or describes the characteristics of a data set. Descriptive statistics consists of two basic categories of measures: measures of central tendency and measures of variability (or spread). Measures of central tendency describe the centre of a data set.

Inferential statistics make inferences and predictions about extensive data by considering a sample data from the original data. It uses probability to reach conclusions.

The process of "inferencing" insights from a sample data is called "Inferential statistics".

The best real-world example of "Inferential statistics" is, predicting the amount of rainfall we get in the next month by weather forecast.

To understand Inferential statistics, we have to have basic knowledge about the following fundamental topics in Probability.

- The Basic Definition of Probability.
- The multiplication rule of Probability.
- The addition rule of Probability.
- nCr Combination