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class = MCA 'D'

Subject = SL and R language end-term Practical

Date = 15/03/2022

AS

Ans 1 -

```
<!Doctype. html>
<html>
<head>
<script>
function validate(){
  let x = document.forms["myform"]["fname"].
    value;
  if (x == "") {
    alert ("Name must be filled out");
    return false;
    }
}
</script>
</head>
<body>
<h2> Javascript validation </h2>
<form name = "myform" action = "/action-page.php"
 onsubmit = "return validate()" method = "post">
Name: <input type = "text" name = 'fname">
<input type = "submit" value = "submit">
</form>
</body>
</html>
```

AB

Ans2-

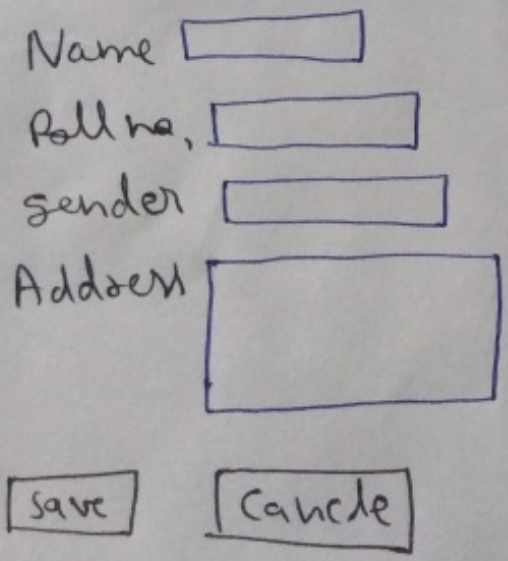
```
<html>
<head>
<title> general form </title>
</head>
<body bgcolor = "aaKK">
<form action = "<?php $_PHP_SELF?>" method = "POST">
Name:
<input type = "text" name = "txtname">
<br> <br>

Roll no.
<input type = "text" name = "txtr_no">
<br> <br>

Gender:
<input type = "text" name = "txtgen">
<br> <br>

Address:
<textarea name = "add" type = "textarea"> </textarea>
<br> <br>

<input type = "Submit" name = "insert" value = "Save">
<input type = "Reset" value = "Cancle">
</form>
</body>
</html>
<?php
```

AB

```
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['txtr_no']);
     $gender = strval($_POST['txtgen']);
     $address = strval($_POST['add']);
  $insert="insert into info values('$name','$gender',
  '$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>";
```

```
while($row=mysqli_fetch_array($sldt))
{
    echo "<tr>";
    echo "<td>".$row['name']."</td>";
    echo "<td>".$row['roll no.']."</td>";
    echo "<td>".$row['gen']."</td>";
    echo "<td>".$row['address']."</td>";
    echo "</tr>";
}
  echo "</table>";
  mysql_close($con);
}
}
?>
```

output



Ans3.- #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 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)
```

AB

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")
```

AB

Ans4 - #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 corelated 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

AB

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

Df