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- Father Name : Mr. Pahar Singh Kaintura
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- Roll No : 2101230
- Enrollment No : PV-18210148
- Section : D
- Course : MCA [Master of Computer Application]
- Sem : 1st
- College : Graphic Era Hill University
- Exam : Odd End Sem Examination 2022

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Q1. Validation for empty input field :-

Ans.
```
<!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> ---------- .. </h2>
<p> - - -
```

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Q2. Student Registration PHP :-

Ans.
```
<html>
<head>
<title> general form </title>
</head>
<body bgcolor="aaff">
<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
if(isset($_POST['insert']))
{
```

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```
$con=mysql_connect("localhost","root","");
if($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','$rollno','$gender
','$address')";
if(mysql_query($insert,$con))
{ echo "Data inserted successfully<br>"; }

$query="select * from info";
$slt=mysql_query($query,$con);
echo "<table border='1'>
<tr>
  <th>Name</th>
  <th>Roll no</th>
  <th>Gender</th>
  <th>Address</th>
</tr>";
while($row=mysql_fetch_array($slt))
{ echo "<tr>";
  echo "<td>".$row['name']."</td>";
  echo "<td>".$row['rollno']."</td>";
```

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```
echo "<td>".$row['address']."</td>";
echo "</tr>";
}
echo "</table>";
mysql_close($con);
}
}
?>
```

Output

NAME [ ]

Roll no [ ]

Gender [ ]

Address [ ]

[Save] [Cancle]

Name	Rollno	Gender	Address

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⊙ Rollno ⇒ 2101230

Q3. Ans #Dplyr library function

```
library (dplyr)
setwd ("G:/MCA")
mydata
mydata
```

#Descriptive statistics

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

#select function

```
mysubdata <- select (mydata, cars, average)
mysubdata
```

filter and arrange function

```
mysubdata1 <- filter(mydata, average> 90)
mysubdata1
mysubdata2 <- arrange(mydata, desc (average))
mysubdata 3 <- arrange(mydata, desc(speed))
```

#Top and Bottom 5 average cars

```
head (mysubdata2)
tail (mysubdata2)
```

mutate function (to add a column to dataset

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```
mydata <- mutate(mydata, model= year)
# 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

1) Chi-squared test
model <- chisq.test(mydata)
model
output p-value = 0.3342 > 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
mysubdata 4 <- aov (mydata$average ~ mydata
$speed)
mysubdata 4

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output PV(>P) is 0.0017 as this value is less than 0.05 then we reject 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.

Suhail

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