Name = Harshit Pant
Student ID = 21711231
University Roll. No. = 2101078

Course = MCA - 1-D

Scripting Language and R language

Ans (1)

```
<html>
<head>
 <script>
  function validate()
  {
    var msg = " ";
    if ( document.getElementById('log').value == " ")
     { msg = " username";
       document.getElementById('log').focus()
     }
   if(document.getElementById('pass').value==(""))
    { if(msg!= " ")
     { msg += "and"
     }
     msg += "password";
    }
    if(msg!= "")
     { alert("provide" + msg);
       return false;
     }
   }
 </script>
</head>
```

```
<body onload = document.getElementById('log').focus() >
<form action = "login.php" method = "post" onsubmit = "return validate()">
Login-name: <input type = "text" id = "log" ><br><br>
password: <input type = "password" id = "pass" ><br><br>
<input type = "submit" name = "submit1" value = "login" >
</form>
</body>
</html>
```

Name = Harshil Patel

Course = MCA-1-D

Student Id = 21711231

University Roll No. = 210107B

Ans (2) source code :-

```
<html>
  <head>
    <title> General form </title>
  </head>
  <body>
    <form action = "<? php $_PHP_SELF ?>" method = "Post">
    Name:
  <input type = "text" name = "textname">
    <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 = "Cancel">
</form>
</body>
</html>
```

```
<?php
if(isset($_POST["insert"]))
{ $con = mysqli_connect("localhost","root","","newdb");
 if($con)
}
echo "mysql connection ok <br>";
mysqli_select_db ($con,"newdb");
$name = strval($_POST['Textname']);
$Roll.No. = intval($_POST["Txtr_no"]);
$gender = strval($_Post["txtgen"]);
$address = strval($_Post['Add']);
$ insert = "insert into studinfo values('$name', '$Roll.No.
          , '$gender', '$address')";
if (mysqli_query ($con. $insert));
 { echo "Data inserted successfully <br>;
}
$query = "select" form studinfo";
$ sldt = mysqli_query ($con. $ query);
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['txtname'],"</td>";
     echo "<td>", $row['txtr_no'],"</td>";
     echo "<td>". $row['txtgen'],"</Hd>";
     echo "<td>", $ row['dd'],"</td>";
  echo "</tr>";
   }
   echo"</table>";
 mysqli_close ($con];
 }
}
?>
```

Name = Harshit Pant
Student Id = 21711231
University Roll. No. = 2101078

Course = MCA-1-D
End-Term-Practical-Exam
-PMC-103

Ans (3) Plotting the graphs

csv file = cars.csv

- Setting of working Directory

  setwd ("c:/users/Harshit/Downloads")

- Reading of .csv file

  cars <- read.csv("cars.csv")

- Installing ggplot package

  install.packages("ggplot2")

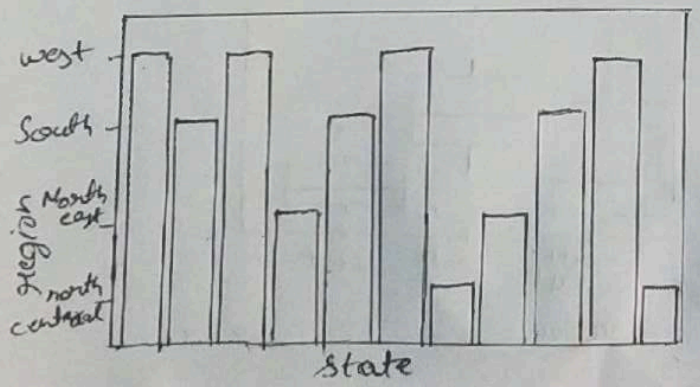
  this is package is important for plotting graphs and charts few of them will be shown below.

- Using ggplot() Library

  library(ggplot2)

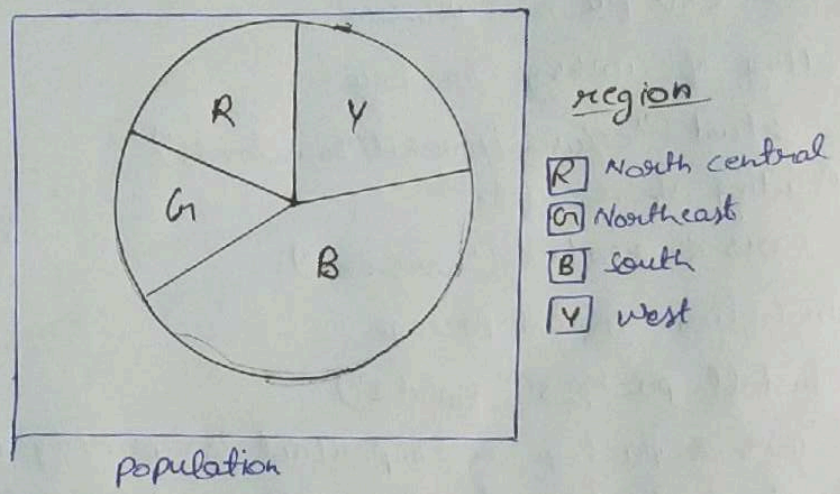
- Histogram :-

  ggplot(cars, aes(y=state, x=region)) + geom_bar(stat="identity")



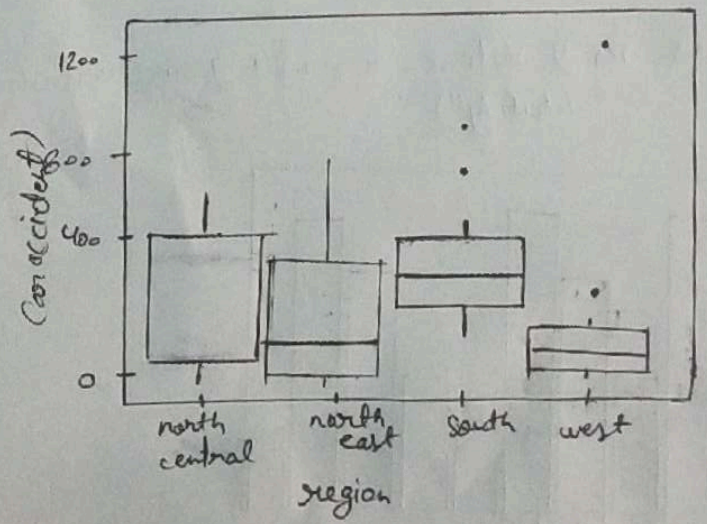
- Pie-chart

```
ggplot(cars, aes(y="", fill= region, x= population)) +
    geom_bar(width=1, stat= "identity") + coord_polar
        ("x", start=0)
```



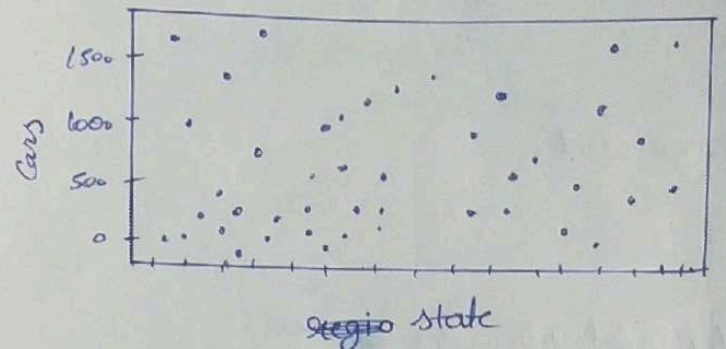
- Boxplot :-

```
ggplot(cars, aes(x= caraccident, y= region)) + geom_boxplot()
```



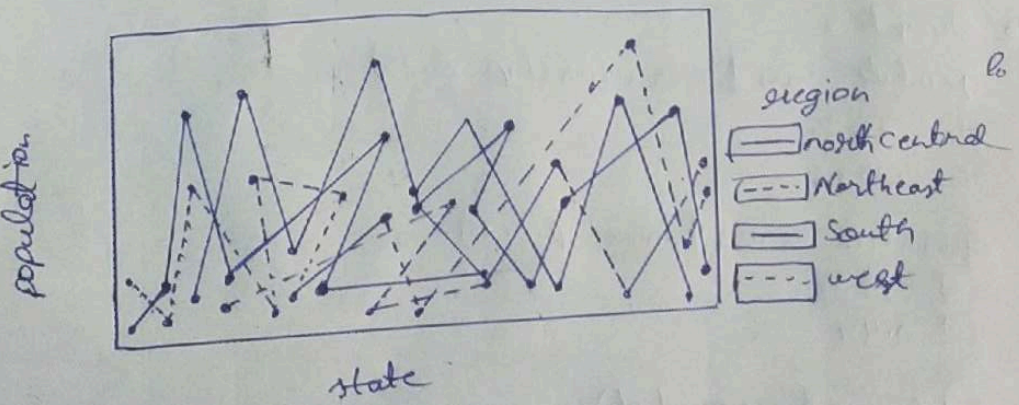
- Scatter Plotting :-

```
ggplot(cars, aes(x=state, y=cars)) + geom_point()
```



- Line Graph :-

```
ggplot(cars, aes(y=population, x=state, group=region,
    colour=region)) + geom_line() + geom_point()
```



- Some Quantitative Data
- Minimum

  min(cars $ carownership)

  ⇒ 0.036
- Maximum

  max(cars $ caraccident)

  ⇒ 1257
- Mean

  mean(cars $ populationDensity)

  ⇒ 394.5488
- Median

  median(cars $ population)

  ⇒ 4339367
- Quantile

  quantile(cars $ carownership, 0.25)

  ⇒ 25%

  ⇒ 0.3055

  Quantile(cars $ownership, 0.75)

  ⇒ 75%

  ⇒ 0.44
- Sd(cars $ caraccident)

  ⇒ 236.1261
- Var(cars $ caraccident)

  ⇒ 55755.56

Name - Harshil Pant
Student ID = 2171231
University Roll No = 2101078
Course = MCA - 1 - D

Ans (4)

Descriptive Statistics - It discribes the important characteristics/properties of data using the measures of central tendency like mean/median /mode and the measure of discription like range S.D etc.

for eg: We have the marks of 1000 student we may be interested in overall performence of those students and the distribution as well as the spread of marks. It provides us tool to define over data in the most understandable way.

Inferential Statistics - Its all about using data from sample and marking a inference about the larger population which the sample as drawn. It determines the probability of the characteristics of the sample using probability theory.

Eg :- Suppose we are interested in the exam marks of all the students in India. But it is not feasible to measure the exam marks of all the student in India So now we will measure the marks of smaller sample of students for eg 1000 students. This sample will now represent the large population of Indian students