1) Define a method name as Validate() to check any blank entry and input field. If so then display all unfilled field in a single alert box.

```
<!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>Javascript Validation for empty input field</h2>
<p> Try to Submit the form without entering the 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>
```

2) Create a student Registration in Php, Save and display the Student record.

```
<html>
<head>
<title>General form</title>
</head>
<body bgcolor = "aakk">
<form action = "<?php $_PHP ?>" method = "POST">
Name:
<input type = "text" name = "txtname">
<br><br>
Roll No.:
<input type = "text" name = "txtr_no">
<br><br>
Gender:
<input type = "text" name = "txtgen">
<br><br>
Address:
<textarea name = "add" type = "textarea"></textarea>
<br><br>
<input type = "Submit" name = "insert" Value = "Save">
<input type = "Reset" Value = "Cancle">
</form>
</body>
</html>
<?php
  if (isset ($_POST['insert']))
  {
   $con = mysql_connect ("localhost", "root", "");
  if ($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";
$sidt = mysql_query($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($sidt))
  { echo"<tr>";
      echo"<td>". $row['name']. "</td>";
      echo"<td>". $row['rollno']. "</td>";
      echo"<td>". $rao['gen']. "</td>";
      echo"<td>". $row['address'] "</td>";
      echo"</tr>";
    }
  echo "</table>";
  mysql_close($con);
  }
 }
?>
```

3) Analyze any CSV dataset using R.

```
> Kidswalk <- read.csv("C:/Users/agewalk4R.csv")
> Kidswalk <- read.csv(file.choose())
> mean(Kidswalk$agewalk)
> attach(Kidswalk)
> mean(agewalk)
> Kidswalk <- read.table("agewalk4R.txt")
> totscore <- score1 + score2 + score3 + score4.
> weight.kg <- 0.4536 * weight.db.
> ageLT30 <- ifelse(age<30, 1, 0)
> obese <- ifelse(BMTgroup == 4, 1, 0)
> agecat <- 99.
> agecat[age<20] <- 1
> agecat[20<=age & age<=39] <- 2
> agecat[40<age & age<=59] <- 3.
> agecat[60<=age] <- 4.
> healthstudy <- cbind(healthstudy, weight, kg, agecat)
> write.csv(healthstudy, 'healthstudy2.csv).
```

4) Discuss Descriptive and Inferential statistics of above dataset.

```
> mean(Kidswalk)
  Subjno    group      Sex     agewalk
  25.50     1.34       0.48    11.13

> mean(agewalk)
 [1] 11.13

> sd(Kidswalk)
  Subjno      group     Sex      agewalk
14.5773797   0.4785    0.5046   1.3583078

> sd(agewalk)
 [1] 1.358308.

> length(agewalk)
[1] 50

> summary(Age-walk)
Min    1st Qu.   Median   Mean   3rd Qu.   Max
9.00   10.00     11.25    11.13  12.00     13.50

> t.test(agewalk, Conf.level = 90)
        one sample t-test
        data: agewalk

t = 57.9405, df = 49, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 0.90
Percent Confidence interval.
 10.80795   11.45205
Sample estimates.
mean of x
11.13
```