Name- Aparna Sundriyal Student ID- 21712013

University Roll No.- 2101034 Course- MCA 1'C'

Class Roll No.- 63

Q1) ans.

```
<!DOCTYPE html>
<html>
<head>
<Script>
  function validate(){
    var x =
    document.forms["MyForm"]["fname"].value;
    if (x==" " || x==null){
    alert("Name must be filled out");
    return false;
  }
}
</Script>
</head>
<body>
<h2> Java script validation for empty input field</h2>
<P> try to submit the form without entering
  any text.</P>
<Form name="My Form" action="/action-page.php"
        onsubmit="return validate()"
        method="Post" required>
Name: <input type="text" name="fname">
<input type="submit" value="Submit">
</form>
</body>
</html>
```

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ans 2.

```
<!DOCTYPE html>
<html>
<head>
<title> Student Registration </title>
</head>
<body>
<h2> Student Registration form</h2>
<Form action = "Submit.php" method = "POST">
<input type = "text" name = "Student First Name"
        value = " " placeholder = "Student First Name">
<br/>
<input type = "text" name = "Student Last Name"
        value = " " placeholder = "Student Last Name"><br/>
<input type = "text" name = "Father's Name value = " "
        placeholder = "Father's Name"> <br/>
<input type = "text" name = "Mother's Name" value = " "
        placeholder = "Mother's Name"> <br/>
<input type = "date" name = "DOB" value = " "
        placeholder = "DOB"> <br/>
<input type = "tel" name = "Mobile Number" value = " "
        placeholder = "Mobile Number"> <br/>
<input type = "Submit" name = "Submit">
</form>
</body>
</html>
```

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(12)

Submit.php

```
<!DOCTYPE html>
<html>
 <head>
  <title> Registration Form </title>
  </head>
  <body>
  <h2> Thank you for submitting the form </h2>
  <!-- Getting the output for the form value provided
       through 'Form.php' -->
  Student's First Name : <?php echo $_POST['student First Name']
                                ?> <br/>
  Student's Last Name : <?php echo $_POST['student Last Name']
                                ?> <br/>
  Student's Father's Name : <?php echo $_POST['Father's Name']
                                ?> <br/>
  Student's Mother's Name : <?php echo $_POST['Mother's Name']
                                ?> <br/>
  Student's Date of Birth : <?php echo $_POST['DOB']?> <br/>
  Student's Mobile Number : <?php echo $_POST['Mobile Number']
                                ?> <br/>
  </body>
  </html>
```

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ans3. Reading a .csv file ⇒ Reading a .csv file available in your current working directory

```
data<- read.csv ("Employee.csv")
print (data)
```

When we execute the above code. It produces the following

	id	name	Salary	Start_date	dept
1	1	Rick	623.30	2012-01-01	IT
2	2	Rohit	515.20	2013-09-23	operations
3	3	Dan	611.00	2014-11-15	IT
4	4	Simran	729.60	2014-05-11	HR
5	NA	Gaurav	843.25	2015-03-27	finance
6	6	Neha	578.80	2013-05-21	IT
7	7	Gauri	632.80	2013-07-30	operations
8	8	Kajal	722.50	2014-06-27	finance

Analyzing the .csv file ⇒ By default the read.csv() function gives the output as a data frame

```
data <- read.csv ("Employee.csv")
print (is.data.frame(data))
print (ncol(data))
print (nrow(data))
```

Output-

```
[1] TRUE
[1] 5
[1] 8
```

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* The person with max. salary ⇒

```
Sal <- max (data $ salary)        # Get the max salary from data frame
retval <- subset (data, salary == max (salary)
print (retval)                    # Get the person detail having max salary
```

Output ⇒

	id	name	salary	start_date	dept
5	NA	Gary	843.25	2015-03-27	Finance

* All the people working in IT department ⇒

```
retval <- subset (data, dept == "IT")
print (retval)
```

Output ⇒

	id	name	salary	start_date	dept
1	1	Rick	623.3	2012-01-01	IT
3	3	Dan	611.0	2014-11-15	IT
6	6	Neha	578.0	2013-05-21	IT

* Get the persons in IT department whose salary is greater than 600

```
info <- subset (data, salary > 600 & dept == "IT")
print (info)
```

Output ⇒

id	name	salary	start_date	dept
1	Rick	623.3	2013-01-01	IT
3	Dan	611.0	2014-11-15	IT

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ans 4. Descriptive Statistics :-

Summary- Gives us the descriptive statistics like in case of numerical data:-

Gives mean, mode, median, range

Measure of central Tendency ⇒

= mean (Employee $ salary)

656.88125

[an average person spent $656.88115 salary]

= mode (Employee $dept)

= 3

[most common dept on Employee table]

= median (Employee $ salary)

729.00

Measure of spread ⇒

range (Employee $salary)

515.20 843.25

⇒ Var (Employee $ salary)

1469.437

⇒ sqrt (Employee $ salary)

32.3584

Inferential statistics :-

Hypothesis Testing ⇒

data <- subset (Employee, Employee $ salary == 1)

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```
test 2 - function (a,b,n){
        Sample mean = mean (a)
        Pop - mean = mean (b)
                C = nrow (n)
                Var.b = var (b)
        Zeta = (Sample - mean - pop - mean) /
                                sqrt (var b/C))
        return zeta
```

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