CLASSMATE
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End-Term-Practical Exam

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Q1. Answer :

```
<!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> Javascript validation for empty input field</h2>
<p> Submit your name here. <p>
<form name = "myForm"
  action = "/action-page.php"
```

```
onsubmit = " return validate () "
method = "post" required >
    Name: < input type = " text" name = " Fname " >
    < input type = " submit" value = "submit" >
</form>
</body>
</html>
```

Output:

Javascript validation for empty input field

Submit your name here.

Name: [ ] Submit

Ques 2. Answer :

Form.php

```
<!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 = "StudentFirstName"
               value = "" placeholder = "Student First Name"
  <br/> <input type = "text" name = "StudentLastName"
               value = "" placeholder = "Student Last Name"><br
        <input type = "text" name = "FathersName" value = ""
               placeholder = "Fathers Name" > <br/>
        <input type = "text" name = "MothersName" value = ""
               placeholder = "Mothers Name"> </br>
        <input type = "date" name = "Date of Birth" value = ""
               placeholder = "Date of Birth" ><br/>
        <input type = "tel" name = "PhoneNumber" value = ""
               placeholder = "Phone Number"><br/>

        <input type = "submit" name = "Submit">
      </form>
  </body>
</html>
```

submit.php

```
<!DOCTYPE html>
<html>
    <head>
        <title> Registration form</title>
    </head>
    <body>
        <h2> Form Submitted </h2>
        'Student's First Name : <?php echo $_POST ['Student firstName']
                                                    ?> <br/>
        Student's Last Name :< ? php echo $_POST ['StudentLastName']?>
                                                    <br/>
        Student's Father's Name : < ? php echo $_POST ['FathersName'] ?>
                                                    <br/>
        Student's Mother's Name : <? php echo $_POST [ 'MothersName']?>
                                                    <br/>
        Student's Date of Birth : <? php echo $_POST ['DateofBirth'] ?>
                                                    <br/>
        Student's Phone Number : < ? php echo $_POST [' PhoneNumber'] ?>
                                                    <br/>
    </body>
</html>
```

Q.3 Answer

Analyzing CarSpeed .csv dataset using R.

```
# import the data and look at the first five rows

mydata <- read.csv (file = 'data/car-speeds.csv')
  head (carSpeeds)
```

Output:

	Color	Speed	State
1.	Blue	32	Mexico
2.	Red	45	Arizona
3.	Blue	35	Colorado
4.	White	34	Arizona
5.	Red	25	Arizona

```
# first row of the data without setting the header argument.

  carSpeeds [1, ]
```

Output:

	Color	Speed	State
1.	Blue	32	Mexico

```
# The first row of the data if the header argument is
  set to FALSE:

mydata <- read.csv (file = 'data/car-speeds.csv', header
                                                = FALSE)
  carSpeeds [1, ]
```

Output:

	V1	V2	V3
1.	Color	Speed	State

Here we will use R's 'ifelse' function

```
CarSpeed <- read.csv (file = 'data/car-speeds.csv',
                      StringAsFactors = TRUE)

CarSpeed $ Color <- ifelse (carSpeeds$Color == 'Blue', 'Green',
                            carSpeeds$ color)

CarSpeeds$Color
```

Output:

```
[1] "Green" "1"     'Green" "5"     "4" "Green"
"Green" "2"   "5"
[10] "4" "4" "5" "Green" " Green"
 "2" "4"  "Green" "Green"
 :
[100] "5"
```

we use the built-in unique() function to extract the unique colors in our dataset

```
unique(carSpeeds$Color)
```

Output:

```
[1] Green Red White Red Black
Levels: Red Black Green Red White
```

Q# Answer :

Discriptive Statistics:

```
Summary (mydata)
dim (mydata)
str (mydata)
names (mydata)
```

Infrential Statistics:

(i). Chi-squared test

```
Sped <- chisq.test (mydata)
Sped
```

(ii). Correlation coefficient

```
Cor (mydata $ carSpeeds, mydata $ average)
```

~~(iii). Anova test~~