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Course - MCA Sec - C Sem - 1st

Student ID - 21711202 Date - 15-03-22

Subject: Scripting lab:
R programming

Q.1)

Sol) Code :

```
<!DOCTYPE html>
<html>
<head>
<script>
  function validation () {
      var x = document. form ["myform"]
      ["fname"].value;
      if (x == "" || x == null) {
          alert ("name must be filled");
          return false;
          }
      }
</script>
</head>
<body>
<h2> Example for validation for empty input
     field </h2>
<form name = "Myform" action = "/action_Page.php"
on submit = "return validateform ()"
method = "Post" required >
Name: <input type = "text" name = "fname">
<input type = "Submit" value = "Submit >
</form>
</body>
</html>
```

Shashank

Q.2)

Sol) Code :

```
html =
<!DOCTYPE html>
<html>
<head>
<title> Registration </title>
<head>
<body>
<form method = "Post" getaction = "/actem.PHP" >
  Student Name : <input type="text" name = "t1"
  value = "<?PHP if(isset ( $_GET ['t1']))
   echo  $_GET ['t1']; ?>" > <br>
  Student Rollnum : <input type = "text" name = "t2"
  value = "<?PHP if(isset ($_GET ['t2']))
   echo  $_GET ['t2'] ; ?> "><br>
  Students age <input type ="text" name= " t "
   value = " <?PHP if(isset( $GET ['t ']))
   echo $_GET ['t'] ; ?> " ><br>
  Student class <input type = "text " name = " t3"
   value = " <?PHP if(isset ( $_GET ["t3"] ))
   echo  $_GET ['t3'] ; ?>" ><br>
<input type = "submit" value = "submit " >
</form>
</body>
</html>
```

Student

PHP:

```php
<?php
if(isset($_GET['t1']))
{
    if($name=="" || $roll=="" || $class=="" || $age==""
      || $add=="")
    {
        echo "All field are compulsory!";
    }
    else{
        $name=$_GET['t1'];
        $rollno=$_GET['t2'];
        $class=$_GET['t3'];
        $age=$_GET['t'];
        echo "Student Information";
        echo "Name : $name <br>";
        echo "Rollno: $roll <br>";
        echo "class : $class <br>";
        echo "Age : $age <br>";

        }
}
?>
```

Shantul

Q.3 ⇒ Analyze a csv file.

Sol ⇒ Reading a csv file cars.csv.

It is a dataset of cars sold in the country.

⇒ Code:

```
Mydata <- read.csv("cars.csv")
install.packages("ggplot2")
library(ggplot2)
ggplot(Mydata, aes(y= Cylinders, x= Make))
                    +
                    geom_bar(stat = "identity")

ggplot(Mydata, aes(y= "", fill= Make, x= Cylinders)
                    +
                    geom_bar(width= 1, stat= "ide
                    +
                    coord_polar("x", start=0)

max(Mydata $ Cylinders)
min(Mydata $ Cylinders)
Median(Mydata $ Cylinders)
sd(Mydata $ Cylinders)
Summary(Mydata)
quantile(Mydata $ Cylinders, 1)
```

Sharbat

Q. 4 →

→ Descriptive Stats

Minimum Cylinders in a Car.

min (Mydata $ Cylinders)

Mean

mean (Mydata $ Cylinders)

Max Cylinders in a Car.

Max (Mydata $ Cylinders)

Quartile

quantile (Mydata $ Cylinders, 2)

var (Mydata $ Cylinders).

Summary (Mydata)

→ in Cars.csv. Sample of Car manufacturers is taken with their different models. having different number of cylinders where Audi Makes highest numbers of cars with 16 Cylinders.

Shahul

i) chi-squared test

```
model <- chisq.test(Mydata)
model
```

p-value: 0.2

thus Mydata is highly correlated and we accept the null Hypothesis

ii) Correlation efficient

```
cor(Mydata$cars, Mydata$average)
```

→ 0.9 > 0.8

thus cars & average is highly correlated.

Thanks