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Subject Name : Scripting Languages & R Lab

Date : 15-03-2022

Course : M.C.A.

Branch : -

Section : 'C'

Subject Code : PMC-103

Paper Type : Regular
(End Term)

* SCRIPTING LANGUAGES :

Ques 1 :

Sol : Source Code -

```
<html>
```

```
< head> Validate Method </head>
```

```
<body>
```

```
< form name = "myform" action = "/action_page.php"
    onsubmit = "return validate()" method = "post">
```

```
Name : <input type = "text" name = "fname"> <br>
```

```
Password : <input type = "password" name = "pass "> <br>
```

```
Course : < input type = "text" name = "course" > <br >
```

```
<input type = "submit" value = "Submit">
```

```
< script >
```

```
function validate ()
```

```
{ let x = document.forms ["myform"] ["fname"].value;
```

```
let x1 = document.forms ["myforms"] ["pass"].value;
```

```
let x2 = document.forms ["myform"] ["course"].value;
```

```
if (x == "" && x1 == "" && x2 == "")
```

```
{ alert ("Name, Password and Course Must be filled
out!");
```

```
}
```

```
else if (x == " " && x1 != " ")
{ alert ("Name & Password must be filled out!");
}
```

```
else if (x1 == " " & x2 != " ")
{ alert ("Password & Course must be filled out! ");
}
```

```
else if (x == " ")
{ alert ("Name must be filled out! ");
}
```

```
else if (x1 == " ")
{ alert ("Password must be filled out!");
}
```

```
else if (x2 == " ")
{ alert ("Course must be filled out!");
}
```

```
return false;
```

```
}
```

```
</script>
```

```
</form>
```

```
</body>
```

```
</html>
```

Ques 2:

(3)

Ans: <!DOCTYPE html>

<html lang="en">

<head>

<title> PHP Registration form </title>

</head>

<body>

<?php>

\$nameErr = "";

\$emailErr = "";

\$genderErr = "";

\$websiteErr = "";

\$name = "";

\$email = "";

\$gender = "";

\$comment = "";

\$website = "";

if (\$_SERVER["REQUEST_METHOD"] == "POST")

{ if (empty(\$_POST["name"]))

{ \$nameErr = "Name Field is required"; }

else

{ \$name = test_input(\$_POST["name"]);

if (!preg_match("/^[a-zA-Z-']*\$/", \$name))

{ \$nameErr = "Only letters and white space allowed";

}

}

```
if (empty($_POST["email"]))
```

```
{ $emailErr = "Email field is required "; }
```

```
else
```

```
{ $email = test_input($_POST["email"]);
```

```
if (!filter_var($email, FILTER_VALIDATE_EMAIL))
```

```
{ $emailErr = "Invalid email format! ";
```

```
}
```

```
}
```

```
if (empty($_POST["website"]))
```

```
{ $website = ""; }
```

```
else
```

```
{ $website = test_input($_POST["website"]);
```

```
if (!preg_match("/\b(?:(: https?|ftp): \| \\/ \| www \.)
```

```
[-a-z0-9+&@#\/%?=_|!:,;]*[a-z0-9+&@#\/%  
=_-|]/i", $website))
```

```
{ $websiteErr = "Invalid URL! ";
```

```
}
```

```
}
```

```
if (empty($_POST["comment"]))
```

```
{ $comment = ""; }
```

```
else
```

```
{ $comment = test_input($_POST["comment"]);
```

```
}
```

```
if (empty($_POST["gender"]))  
{  
    $genderErr = "Gender is required !";  
}  
else  
{  
    $gender = test_input($_POST["gender"]);  
}  
}
```

```
function test_input ($data)  
{  
    $data = trim ($data);  
    $data = stripslashes ($data);  
    $data = htmlspecialchars ($data);  
    return $data;  
}
```

??

```
<h1> PHP Registration Form </h1>  
<form method = "post" action = "<?php echo htmlspecialchars  
$_SERVER["PHP_SELF"]; ">  
<b> Enter Name: </b> <input type="text" name = "<?php echo  
$name; ?>">  
<span class = "error"> * <?php echo $nameErr; ?> </span>  
<br> <br>  
<b> Enter E-mail </b> <input type = "text" name = "email"  
value = "<?php echo $email; ?>">  
<span class = "error"> * <?php echo $emailErr; ?> </span>  
<br> <br>
```

 Select Gender

```
<input type="radio" name="gender" <?php if (isset($gender)
    && $gender=="male") echo "checked";?>
```

value="male"> Male

```
<input type="radio" name="gender" <?php if (isset($gender)
    && $gender=="female") echo "checked";?>
```

value="female"> Female

```
<input type="radio" name="gender" <?php if (isset($gender)
    && $gender=="other") echo "checked";?>
```

value="other"> Other

```
<span class="error"> * <?php echo $genderErr;?> </span>
<br><br>
```

```
<input type="submit" name="Submit" value="Register">
```

</form>

```
<?php>
```

```
echo "<h2> Your Input </h2>";
```

```
echo $name;
```

```
echo "<br>";
```

```
echo $email;
```

```
echo "<br>";
```

```
echo $website;
```

```
echo "<br>";
```

```
echo $comment;
```

```
echo "<br>";
```

echo \$gender ;

?>

</body>

</html>

X—X

Que 3 :

Dplyr library function

```
library (dplyr)
```

```
setwd ("E :/MCA")
```

```
mydata <- read.csv ("most runs .csv")
```

```
mydata
```

Descriptive Statistics using R

```
summary (mydata)
```

```
dim (mydata)
```

```
str (mydata)
```

```
names (mydata)
```

```
nrow (mydata)
```

```
ncol (mydata)
```

```
head (mydata, n=6)
```

```
tail (mydata, n=6)
```

select function

```
mydata <- select (mydata, batsman, average)
```

```
mydata
```

filter function

```
submydata1 <- filter (mydata, average > 50)
```

```
submydata1
```


arrange function

```
mysubdata2 <- arrange (mydata, desc (average))
```

```
mysubdata3 <- arrange (mydata, desc (strikerate))
```

Top & Bottom 5 average batsman

```
head (mysubdata2)
```

```
tail (mysubdata2)
```

mutate function (to add columns to data set)

```
mydata <- mutate (mydata, Performance = runs - balls)
```

DIFFERENT PLOTS USING DATASET

HISTOGRAM

```
hist (mydata $ average, col = c ('red', 'yellow', 'green'),  
      xlab = "Average", ylab = "Players", break = "50")
```

SCATTER-PLOT

```
plot (mydata $ strikerate, col = c ('red', 'yellow', 'green'),  
      xlab = "Players", ylab = "strikerate")
```

BAR PLOT

```
barplot (mydata $ average, col = c ('red', 'yellow', 'green'),  
         xlab = "Players", ylab = "Average")
```

BOX - PLOT

```
boxplot (mydata $ average , col = c ('red', 'yellow', 'green') ,
        xlab = "Players", ylab = "Average")
```

Ques 4 :

descriptive statistics

```
summary (mydata)
```

```
dim (mydata)
```

```
str (mydata)
```

```
names (mydata)
```

Inferential statistics

chi - squared test.

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

```
model
```

Output , $p\text{-value} = 0.446283 > 0.05$

Hence, mydata is highly correlated & we can accept

NULL HYPOTHESIS

Correlation Coefficient

```
cor(mydata$batsman, mydata$runs)
```

output is : $0.99324 > 0.8$

Therefore, batsman & runs are strongly correlated
to each other.

ANOVA TEST:

```
mysubdata4 <- aov(mydata$runs ~ mydata$average)
```

```
mysubdata4
```

Output is: $P(>F)$ is 0.0013 , as this value is LESS THAN

0.05 , Hence, we REJECT NULL HYPOTHESIS

and accept the alternative hypothesis.

T-TEST:

```
t.test(mydata, mu = 100)
```

This test evaluates T-SCORE for the data-set

Output : p -value is $0.446283 > 0.05$

Hence, we accept NULL HYPOTHESIS

X-X