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Course - MCA

Semester - 1

Section - C

Paper Name - Scripting language and R language

Paper code - PMC 1030

Type of Paper - Regular (Practical)

Scripting language

② <!DOCTYPE HTML>

<html lang = "en">

<head>

<meta charset = "utf-8">

<meta name = "viewport" content = "width=device width, initial-scale=1, shrink to fit=no">

<title> PHP Student Registration </title>

<style>

error {

color: white;

font-family: lato;

background-color: green;

display: inline-block;

padding: 2px 10px;

}

padding: 0;

margin : 0;
box-sizing : border-box;

body {

margin : 50px auto;
text-align : center;
width : 800px;

{

font-family : sans-serif;
display : block;

font-size : 2rem;

font-weight : bold;

text-align : center;

letter-spacing : 3px;

color : hotpink;

text-transform : uppercase;

}

label {

width : 150px;

display : inline-block;

text-align : left;

font-size : 1.5rem;

font-family : "Lato";

}

input {

border : 2px solid #ccc;

font-size : 1.5rem;

③

Date _____
Page _____

font-weight: 100;
font-family: 'Lato';
padding: 10px;

form 2

margin: 20px auto;
padding: 10px;
border: 1px solid #ccc;
width: 500px;
background: #f3e7e9;

div.form-element 1

margin: 20px 0;

input[type=submit] {
background: #fff;
content: "";
position: absolute;
z-index: -1;
}

input[type=submit] {

border: 1px solid;
border-radius: 2px;
color;

color: black;

font-size: 1em;

font-weight: bold;
margin: 1em auto;


```
padding: 1em 4em;  
position: relative;  
text-transformation: uppercase;
```

```
input { type = submit } { before
```

```
background: #fff;  
border: 1px solid #ccc;  
position: absolute;  
z-index: -1;
```

```
input { type = submit } { hover {  
background: #1a33ff;
```

```
</style>  
</head>  
<body>  
<? php  
$name Errs " " ;  
$email Errs " " ;  
$gender Errs " " ;  
$website Errs " " ;  
$name s " " ;  
$email s " " ;  
$gender s " " ;  
$comment s " " ;  
$website s " " ;
```



```
if ($SERVER["REQUEST_METHOD"] == "POST") {
```

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

```
        $name_err = "Name field is required";
```

```
    } else {
```

```
        $name = test_input($_POST["name"]);
```

```
        if (!preg_match("/^[a-zA-Z ]+$/", $name)) {
```

```
            $name_err = "Only letters and white spaces  
allowed";
```

```
        }
```

```
    }
```

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

```
        $email_err = "Email field is required";
```

```
    } else {
```

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

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

```
            $email_err = "Invalid email format";
```

```
        }
```

```
    }
```

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

```
        $website = "";
```

```
    } else {
```

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

```
        if (!preg_match("/^[a-zA-Z0-9-]+$/", $website)) {
```



```
$website_err = "Invalid URL";
```

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

```
} else {
```

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

```
if (empty($_POST["gender"])) {  
    $gender_err = "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 Student Registration </h1>  
<form method="post" action="?"
```

```
php echo htmlspecialchars($_SERVER["PHP  
_SELF"]);
```



```
<b> Enter name : </b> <input type="text" name="names" value="" <?php echo $name;?> </?php echo $name;?> </b> </b>
```

```
<b> Enter E-mail : </b> <input type="text" name="email" value="" <?php echo $email;?> </?php echo $email;?> </b>
```

```
<span class="error" > <?php echo $emailErr;?> </span> <?php echo $email;?>
```

```
<br> <br> <b> Enter Number : </b> <input type="text" name="website" value="" <?php echo $website;?> </?php echo $website;?> </b>
```

```
<br> <br> <b> Message : </b> <text area name="comment" rows="5" cols="40" <?php echo $comment;?> </text area> <br> <br>
```

```
<b> select Gender : </b> <input type="radio" name="gender" <?php if (isset ($gender)) { $gender = $gender; } else { checked; } > value="female" > female
```



```

☐

```

```



```

```

</form>

```

```

<? php>

```

```

echo "<h2> Your input: </h2>";

```

```

echo $name;

```

```

echo "<br>";

```

```

echo $email;

```

```

echo "<br>";

```

```

echo $website;

```

```

echo "<br>";

```

```

echo $password;

```

```

echo "<br>";

```

```

echo $gender;

```

```

}

```

```

</body>

```

```

</html>

```


① <!DOCTYPE HTML>

<html>

<head>

<script>

function validate form () {

var x = document.forms ("my form")

x["name"].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 any text. </p>

<form name = "my form"

action = "action_page.php" onSubmit =

"return validate form ()" method = "post"

required >

Name: <input type = "text" name = "name">

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

</form>

</body>

</html>

R language

(3) `csv_data <- read.csv(file='sample.csv')`
`print(csv_data)`
`print(ncol(csv_data))`
`print(nrow(csv_data))`

`csv_data <- read.csv(file='sample.csv')`
`min_pro <- min(csv_data[, project 'experiment'])`
`print(min_pro)`

`csv_data <- read.csv(file='sample.csv')`
`new_csv <- subset(csv_data, placebo & experiment)`
`print(new_csv)`

`csv_data <- read.csv(file='sample.csv')`
`new_csv <- subset(csv_data, placebo & experiment)`
`new_data <- read.csv(file='new-sample.csv')`
`print(new_data)`

`csv_data <- read.csv(file='sample.csv')`
`new_csv <- subset(csv_data, placebo & experiment)`
`write.csv(new_csv, 'new-sample.csv', row.names = FALSE)`
`new_data <- read.csv(file='new-sample.csv')`
`print(new_data)`



library (psych)
experiment.1 <- read_clipboard()
experiment.1
summary(experiment.1)
describe(experiment.1)
boxplot(experiment.1, main = "Effect of caffeine on
a spelling test", ylab = "Spelling Performance")
strip chart(experiment.1, method = "jitter", jitter
= .05, vertical = T, add = F)
multi.test(experiment.1)
with(experiment.1, test(Placebo, Drug, equal.
var = TRUE))

Data set

Placebo	Drug
24	24
25	29
27	26
26	23
26	25
22	28
21	27
22	24
23	27
25	28
25	27
25	26

> summary (experiment.1) #basic descriptive way

Placebo	Drug
Min : 21.00	Min : 23.00
1st Qu : 22.75	1st Qu : 24.75
Median : 25.00	Median : 26.50
Mean : 24.25	Mean : 26.17
3rd Qu : 25.25	3rd Qu : 27.50
Max : 27.00	Max : 29.00

> describe (experiment.1) #another descriptive way

	Var	n	mean	sd	median	trimmed mean	min
Placebo	1	12	24.25	1.88	25	24.3	1.48
Drug	2	12	26.17	1.85	26.5	26.2	2.22

max	range	skew	kurtosis
27	6-0.33	-1.33	0.54
29	6-0.22	-1.33	0.53

> boxplot (experiment.1, main = "Effect of Caffeine on Spelling Performance")

> stripchart (experiment.1, method = "jitter", jitter = 0.5, vertical = T, add = T)

> melt; hist (experiment.1)