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# Internet and Web Programming

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## Question - 1

<?php

```
// Establishing Database Connections.
$conn = new mysqli("localhost", "root", "", "iwp");
if($conn->connect_error)
{
    die("Connection Failed" . $conn->connect_error) ;
}
echo "<script>console.log('Connection Successful')</script>";
```

```
// Create a table;
$sql = "SHOW TABLES";
$result = $conn->query($sql);
$flag = false;
if($result->num_rows > 0)
{
    $arr = $result->fetch_all();
    for($i=0;$i<sizeof($arr);$i++)
    {
```

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```

        //echo $arr[$i][0];
        if(strcmp($arr[$i][0], "students") == 0)
        {
            $flag = true;
        }
    }
}
$result->free_result();
if(! $flag)
{
    $sql = "CREATE TABLE students (first_name
CHAR(20), last_name CHAR(20), marks INT(4) DEFAULT 0);";
    if($conn->query($sql) == true)
    {
        echo "<script>console.log('Table Creation
Successful')</script>";
    }
    else
    {
        echo "Error creating table: " .
mysqli_error($conn);
    }
}

//Insertion of a few records.
$sql = "INSERT INTO students VALUES('Soonoo',
'Jaiswal', 60);";
$sql .= "INSERT INTO students VALUES('James',
'William', 80);";
$sql .= "INSERT INTO students VALUES('Swati',
'Sironi', 82);";

```

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```

    $sql .= "INSERT INTO students VALUES('Chetna',
'Singh', 72)";
    if ($conn->multi_query($sql))
    {
        echo "<script>console.log('Records inserted
Successful')</script>";
    }
    else
    {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }
    $conn->close();

$conn = new mysqli("localhost", "root", "", "iwp");
// Displaying a title
echo "<h1> Students Table </h1>";

// Displaying the initial table
echo "<h3> Initial Table </h3>";
$sql = "SELECT * FROM students ";
$result = $conn->query($sql);
if(!empty($result))
{
    $printval = "<table>
                <tr>
                    <th>First Name</th>
                    <th>Last Name</th>
                    <th>Marks</th>
                </tr>";
    while($row = mysqli_fetch_array($result))
    {

```

---

```

        $printval .= "<tr>
                        <td>" . $row['first_name'] .
"</td>
                        <td>" . $row['last_name'] .
"</td>
                        <td>" . $row['marks'] . "</
td>
                        </tr>";
    }
    $printval .= "</table>";
    echo $printval;
    $result->free_result();
} else
{
    echo "Error: " . $sql . "<br>" . $conn->error;
}

// Make necessary Changes.
$sql = "UPDATE students SET marks=90 WHERE
first_name='Swati'";
$sql .= "UPDATE students SET last_name='Anderson'
WHERE first_name='James'";
$sql .= "DELETE FROM students WHERE
first_name='Chetna'";

if ($conn->multi_query($sql) === TRUE)
{
    echo "<script>console.log('Records updated
Successful')</script>";
}
else

```

---

```

{
    echo "Error: " . $sql . "<br>" . $conn->error;
}
$conn->close();

$conn = new mysqli("localhost", "root", "", "iwp");
// Displaying the final table
echo "<h3> Final Table </h3>";
$sql = "SELECT * FROM students ";
$result = $conn->query($sql);
if(!empty($result))
{
    $printval = "<table>
                <tr>
                    <th>First Name</th>
                    <th>Last Name</th>
                    <th>Marks</th>
                </tr>";
    while($row = mysqli_fetch_array($result))
    {
        $printval .= "<tr>
                        <td>" . $row['first_name'] .
"</td>
                        <td>" . $row['last_name'] .
"</td>
                        <td>" . $row['marks'] . "</
td>
                    </tr>";
    }
    $printval .= "</table>";
    echo $printval;
    $result->free_result();
}

```

---

```
}else
{
    echo "Error: " . $sql . "<br>" . $conn->error;
}

// Close the Database connection.
$conn -> close();
?>
```

---

# Output :

Initial Table :

| first_name | last_name | marks |
|------------|-----------|-------|
| Soonoo     | Jaiswal   | 60    |
| James      | William   | 80    |
| Swati      | Sironi    | 82    |
| Chetna     | Singh     | 72    |

Final Table (After Modifications) :

| first_name | last_name | marks |
|------------|-----------|-------|
| Soonoo     | Jaiswal   | 60    |
| James      | Anderson  | 80    |
| Swati      | Sironi    | 90    |

Web Interface :

## Students Table

### Initial Table

| First Name | Last Name | Marks |
|------------|-----------|-------|
| Soonoo     | Jaiswal   | 60    |
| James      | William   | 80    |
| Swati      | Sironi    | 82    |
| Chetna     | Singh     | 72    |

### Final Table

| First Name | Last Name | Marks |
|------------|-----------|-------|
| Soonoo     | Jaiswal   | 60    |
| James      | Anderson  | 80    |
| Swati      | Sironi    | 90    |

---

## Question - 2

```
<?php
    require(__DIR__ . '/PHPMailer/src/PHPMailer.php');
    require(__DIR__ . '/PHPMailer/src/Exception.php');

    //$mail = new PHPMailer(true);
    $mail = new PHPMailer\PHPMailer\PHPMailer();

    try {
        $mail->isSMTP();
        $mail->Host = 'smtp.mailgun.org'; //gmail SMTP
server
        $mail->SMTPAuth = false;
        $mail->Username =
'postmaster@sandboxe75ef0d4da9d4e1e83eaad9f4682f9a2.mail
gun.org'; //username
        $mail->Password =
'e0caff9fae00977f1b367900caedc36f-7fba8a4e-35a2fab5';
//password
        $mail->SMTPSecure = 'ssl';
        $mail->Port = 587; //smtp
port

        $mail->
>setFrom('postmaster@sandboxe75ef0d4da9d4e1e83eaad9f4682
f9a2.mailgun.org', 'Aadhitya Swarnesh');
        $mail->addAddress('aadhityas@gmail.com',
'Aadhitya Swarnesh');

        $mail->addAttachment(__DIR__ . '/files/f1.pdf');
```



---

```
$mail->addAttachment(__DIR__ . '/files/f2.pdf');

$mail->isHTML(true);
$mail->Subject = 'My Email';
$mail->Body    = '<b>Email Body</b>';

$mail->send();
echo 'Message has been sent';
} catch (Exception $e) {
    echo 'Message could not be sent. Mailer Error:
'. $mail->ErrorInfo;
}
?>
```

---

## Question - 3

### 1) q3.html :

```
<html>
  <head>
    <title>Form Validation</title>
    <script src='q3.js'></script>
    <style>
      body {
        margin: auto;
        padding: 0%;
      }
      .error {
        color: red;
        font-weight: bolder;
      }
    </style>
  </head>

  <body>
    <br><br><br>
    <h1 style="width: fit-content; margin:
auto;">Personal Details</h1>
    <br><br><br>

    <form onsubmit="formSubmitted()" style="width:
fit-content; margin: auto;">
      <table>
        <tr>
          <th>First Name</th>
```

---

```

                <td><input type="text" name="name"
id="name" onchange="checkName()"></td>
                <td><p id="name_error" class="error"
style="display: none;">Invalid Name</p></td>
            </tr>
            <tr>
                <th>Email</th>
                <td><input type="email" id="email"
onchange="checkEmail()" ></td>
                <td><p id="email_error"
class="error" style="display: none;">Invalid Email
Address</p></td>
            </tr>
            <tr>
                <th>Phone</th>
                <td><input type="number"
name="phone" id="phone" onchange="checkPhone()"></td>
                <td><p id="phone_error"
class="error" style="display: none;">Invalid Phone
Number</p></td>
            </tr>
            <tr>
                <th>Password</th>
                <td><input type="password"
name="pass" id="pass" onchange="checkPassword()"></td>
                <td><p id="pass_error" class="error"
style="display: none;">Invalid Password</p></td>
            </tr>
            <tr>
                <th>Verify Password</th>
                <td><input type="text" name="vpass"
id="vpass" onchange="verifyPassword()"></td>

```

---

```
        <td><p id="vpass_error"
class="error" style="display: none;">Passwords do not
match</p></td>
    </tr>
    <tr>
        <th>Date of Birth</th>
        <td>
            <select name="month" id="month">
                <option value="1"
selected>1-Jan</option>
                <option value="2" >2-Feb</
option>
                <option value="3" >3-Mar</
option>
                <option value="4" >5-Apr</
option>
                <option value="5" >6-May</
option>
                <option value="6" >7-Jun</
option>
                <option value="7" >8-Jul</
option>
                <option value="8" >9-Aug</
option>
                <option value="9" >10-Sept</
option>
                <option value="10" >1-Oct</
option>
                <option value="11" >1-Nov</
option>
                <option value="12" >1-Dec</
option>
            </select>
```

---

```

                                <select name="date" id="date">
                                    <option value="1"
selected>1</option>
                                <option value="2" >1</
option>
                                <option value="3" >1</
option>
                                <option value="4" >1</
option>
                                <option value="5" >1</
option>
                                <option value="6" >1</
option>
                                <option value="20" >1</
option>
                                <option value="30" >1</
option>
                                </select>
                                <input type="number" name="year"
id="year" onchange="checkYear()" style="width: 5em;">
                                <td><p id="year_error"
class="error" style="display: none;">Invalid Year</p></
td>
                                </td>
                                </tr>
                                <tr>
                                    <th>Weight</th>
                                    <td>
                                        <input type="number"
name="weight" id="weight" onchange="checkWeight()"
style="width: 5em;">
                                        <select name="wm" id="wm">

```

---

```

                                <option value="lb"
selected>lb</option>
                                <option value="kg">kg</
option>
                                </select>
                                <td><p id="weight_error"
class="error" style="display: none;">Invalid Weight</
p></td>
                                </td>
                            </tr>
                            <tr>
                                <td></td>
                                <td colspan="2">
                                    <button type="submit">Submit</
button>
                                </td>
                            </tr>
                        </table>
                    </form>
                </body>
            </html>

```

---

## 2) q3.js :

```
function formSubmitted(event)
{
    event.preventDefault();
    if (
        checkName() &&
        checkEmail() &&
        checkPhone() &&
        checkPassword() &&
        verifyPassword() &&
        checkYear() &&
        checkWeight()
    )
    {
        alert("The form has been successfully
submitted.");
    }
    else
    {
        alert("The form cannot be submitted as there are
errors in the entered values. Correct those fields in
order to submit the form.");
    }
}

function checkName()
{
    var val = document.getElementById("name").value;
    if(val.length == 0)
    {
        document.getElementById("name").style.background
="red";
    }
}
```

---

```
document.getElementById("name_error").style.display =
"none";
    return false;
}
else if(val.match(/^[A-Za-z ]+$/))
{
    document.getElementById("name").style.background
="white";

document.getElementById("name_error").style.display =
"none";
    return true;
}
else
{
    document.getElementById("name").style.background
="red";

document.getElementById("name_error").style.display =
"block";
    return false;
}
}

function checkEmail()
{
    var val = document.getElementById("email").value;
    if(val.length == 0)
    {

document.getElementById("email").style.background
="red";
```



---

```
document.getElementById("email_error").style.display =
"none";
    return false;
}
    else if(val.match(/^(([^<>()\\[\]\\. ,;: \s@"]+(\.
[^\<>()\\[\]\\. ,;: \s@"]+)*)|("\.+"))@((\[0-9]{1,3}\. [0-9]
{1,3}\. [0-9]{1,3}\. [0-9]{1,3})|(( [a-zA-Z-0-9]+\.)+[a-
zA-Z]{2,}))$/))
    {
```

```
document.getElementById("email").style.background
="white";
```

```
document.getElementById("email_error").style.display =
"none";
    return true;
}
    else
    {
```

```
document.getElementById("email").style.background
="red";
```

```
document.getElementById("email_error").style.display =
"block";
    return false;
}
}
```

```
function checkPhone()
{
    var val = document.getElementById("phone").value;
```

---

```
        if(val.length == 0)
        {

document.getElementById("phone").style.background
="red";

document.getElementById("phone_error").style.display =
"none";
            return false;
        }
        else if(val.match(/^\d+$/) && val.length == 10)
        {

document.getElementById("phone").style.background
="white";

document.getElementById("phone_error").style.display =
"none";
            return true;
        }
        else
        {

document.getElementById("phone").style.background
="red";

document.getElementById("phone_error").style.display =
"block";
            return false;
        }
    }

function checkPassword()
```

---

```
{
    var val = document.getElementById("pass").value;
    if(val.length == 0)
    {
        document.getElementById("pass").style.background
="red";

document.getElementById("pass_error").style.display =
"none";
        return false;
    }
    else if(val.length >= 8)
    {
        document.getElementById("pass").style.background
="white";

document.getElementById("pass_error").style.display =
"none";
        return true;
    }
    else
    {
        document.getElementById("pass").style.background
="red";

document.getElementById("pass_error").style.display =
"block";
        return false;
    }
}

function verifyPassword()
{
```

---

```
    var val = document.getElementById("pass").value;
    var val2 = document.getElementById("vpass").value;
    if(val2.length == 0)
    {

document.getElementById("vpass").style.background
="red";

document.getElementById("vpass_error").style.display =
"none";
        return false;
    }
    else if(val == val2)
    {

document.getElementById("vpass").style.background
="white";

document.getElementById("vpass_error").style.display =
"none";
        return true;
    }
    else
    {

document.getElementById("vpass").style.background
="red";

document.getElementById("vpass_error").style.display =
"block";
        return false;
    }
}
```

---

```
function checkYear()
{
    var val = document.getElementById("year").value;
    if(val.length == 0)
    {
        document.getElementById("year").style.background
="red";

document.getElementById("year_error").style.display =
"none";
        return false;
    }
    else if(val.match(/^\d+$/) && val.length == 4 &&
parseInt(val)<=2020)
    {
        document.getElementById("year").style.background
="white";

document.getElementById("year_error").style.display =
"none";
        return true;
    }
    else
    {
        document.getElementById("year").style.background
="red";

document.getElementById("year_error").style.display =
"block";
        return false;
    }
}
```

---

```
function checkWeight()
{
    var val = document.getElementById("weight").value;
    if(val.length == 0)
    {

document.getElementById("weight").style.background
="red";

document.getElementById("weight_error").style.display =
"none";
        return false;
    }
    else if(val.match(/^\\d+$/) && val.length < 3)
    {

document.getElementById("weight").style.background
="white";

document.getElementById("weight_error").style.display =
"none";
        return true;
    }
    else
    {

document.getElementById("weight").style.background
="red";

document.getElementById("weight_error").style.display =
"block";
        return false;
    }
}
```

---

```
}  
}
```

### 3) Output :

## Personal Details

|                                       |  |                        |
|---------------------------------------|--|------------------------|
| First Name                            | <input type="text" value="hi22"/>  | Invalid Name           |
| Email                                 | <input type="text" value="33koc"/>   | Invalid Email Address  |
| Phone                                 | <input type="text" value="33"/>  | Invalid Phone Number   |
| Password                              | <input type="password" value="."/>   | Invalid Password       |
| Verify Password                       | <input type="password" value="44"/>  | Passwords do not match |
| Date of Birth                         | <div>1-Jan <input type="button" value="v"/><input type="button" value="v"/></div> <div>1 <input type="button" value="v"/><input type="button" value="v"/></div> <div>3400 <input type="button" value="v"/><input type="button" value="v"/></div> | Invalid Year           |
| Weight                                | <div>-10 <input type="button" value="v"/><input type="button" value="v"/></div> <div>kg <input type="button" value="v"/><input type="button" value="v"/></div>   | Invalid Weight         |
| <input type="button" value="Submit"/> |  |                        |

---

## Folder Organisation

