# CHHOTUBHAI GOPALBHAI PATEL INSTITUTE OF TECHNOLOGY

## Computer Engineering

## Web Development

### List of Experiments

| No. | Practical | Date | Signature |
|---|---|---|---|
| 1. | Write a JavaScript program to apply validation on various fields of student registration form and validate it on validator.w3.org. | | |
| 2. | a. Write a PHP program to display today's date in dd-mm-yyyy format. <br> b. Write a PHP program for swapping of two numbers. <br> c. Write a PHP program to print following pattern. <br> 1 <br> 01 <br> 101 <br> 0101 <br> 10101 <br> d. Implement for-each loop to print username and password as key-value pair in PHP. | | |
| 3. | Write a PHP program to apply following string functions on data of file and save the result in the same file. <br> strtolower(), strtoupper(), strlen(), ltrim(), rtrim(), trim(), substr(), strcmp(), strcasecmp(), strpos(), str_replace(), strrev(). | | |
| **CIE - 1** | | | |
| 4. | Write a PHP program for storing and retrieving user information from MySQL table. <br> a. Design a HTML registration and login page which takes name, password, email and mobile number from user. <br> b. Store this data in MySQL database. <br> c. On next page display all user in HTML table using PHP. <br> d. Update/Delete details of user. | | |
| 5. | Implement session and cookie to maintain session during login and implement visitor counter. | | |
| 6. | Host your website on server. | | |
| 7. | a. Write a program to verify new user via email and OTP. <br> b. Write a program to reset a password in case of forgetting login credentials. | | |
| **CIE - 2** | | | |

| 8. | Write a program to check the strength of password using jQuery. | | |
|---|---|---|---|
| 9. | Integrate google reCAPTCHA with PHP. | | |
| 10. | Write a program using AJAX and PHP to demonstrate how a web page can communicate with the web server while a user type characters in input field. | | |
| **CIE - 3** | | | |

# Practical 1

## AIM: Write a JavaScript program to apply validation on various fields of student registration form and validate it on validator.w3.org.

## Code:

practical1.html

```
<!DOCTYPE html>
<html lang="en">

<head>
        <meta charset="utf-8" />
        <title>Register Form</title>
        <script>
        function validate() {
                var validname = /^[a-zA-Z]+$/;
                var fname = document.forms["RegisterForm"]["firstname"].value;
                if(fname === "") {
                        alert("First Name cannot be empty!");
                        return false;
                } else if(!fname.match(validname)) {
                        alert("Enter Valid First Name!")
                        return false;
```

```javascript
        }
        var lname = document.forms["RegisterForm"]["lastname"].value;
        if(lname === "") {
                alert("Last Name cannot be empty!");
                return false;
        } else if(!lname.match(validname)) {
                alert("Enter Valid Last Name")
                return false;
        }
        var fage = document.forms["RegisterForm"]["age"].value;
        if(fage === "") {
                alert("Age cannot be empty!")
                return false;
        } else if(fage < 18 && fage > 99) {
                alert("Please Enter your correct age");
                return false;
        }
        var em = document.forms["RegisterForm"]["Email"].value;
        var atpos = em.indexOf("@gmail");
        var dotpos = em.lastIndexOf(".");
        if(em === "") {
                alert("Email cannot be empty!")
                return false;
        } else if(atpos < 1 || dotpos - atpos < 2) {
                alert("Please enter correct email ID (Use @gmail.com)");
                return false;
        }
        var dobyear = (new
Date(document.forms["RegisterForm"]["Date"].value)).getFullYear();
```

```
                var currentyear = (new Date()).getFullYear();

                var validateyear = currentyear - dobyear;

                if(fage != validateyear) {

                        alert("Incorrect Date of Birth (Check your Age)");

                        return false;

                }

                var phoneno = /^\+?([6-9]{1})\)?([0-9]{9})$/;

                var ph = document.forms["RegisterForm"]["phone"].value;

                if(ph === "") {

                        alert("Phone number cannot be empty!");

                        return false;

                }

                if(!phoneno.test(ph)) {

                        alert("Please Enter a valid phone number");

                        return false;

                }

                var addr = document.forms["RegisterForm"]["address"].value;

                if(addr === "") {

                        alert("Address must be filled out");

                        return false;

                }

        }

        </script>

</head>

<body>

        <form name="RegisterForm" onsubmit="return validate()" method="post">

                <table>

                        <tr>
```

```html
        <td>
                <label>1. First Name</label>
        </td>
        <td>
                <input type="text" name="firstname" /> </td>
</tr>
<tr>
        <td>
                <label>2. Last Name</label>
        </td>
        <td>
                <input type="text" name="lastname" /> </td>
</tr>
<tr>
        <td>
                <label>3. Age</label>
        </td>
        <td>
                <input type="number" name="age" /> </td>
</tr>
<tr>
        <td>
                <label>4. Email </label>
        </td>
        <td>
                <input type="email" name="Email" /> </td>
</tr>
<tr>
```

```html
                    <td>
                            <label>5. Date of Birth </label>
                    </td>
                    <td>
                            <input type="date" name="Date" /> </td>
            </tr>
            <tr>
                    <td>
                            <label>6. Gender </label>
                    </td>
                    <td>
                            <input type="radio" value="Male" name="gender" checked
/> Male
                            <input type="radio" value="Female" name="gender" />
Female
                            <input type="radio" value="Other" name="gender" />
Other </td>
            </tr>
            <tr>
                    <td>
                            <label>7. Choose your department </label>
                    </td>
                    <td>
                            <select>
                                    <option value="Course">Course</option>
                                    <option value="BCA">BCA</option>
                                    <option value="BBA">BBA</option>
                                    <option value="B.Tech" selected>B.Tech</option>
                                    <option value="MBA">MBA</option>
```

```html
                              <option value="MCA">MCA</option>
                              <option value="M.Tech">M.Tech</option>
                         </select>
                    </td>
               </tr>
               <tr>
                    <td>
                         <label>8. Mobile Number </label>
                    </td>
                    <td>
                         <input type="text" name="phone" /> </td>
               </tr>
               <tr>
                    <td>
                         <label>9. Enter Address </label>
                    </td>
                    <td>
                         <textarea style="background-color:yellow" cols="80"
rows="5" name="address"></textarea>
                    </td>
               </tr>
               <tr>
                    <td>
                         <button type="submit">REGISTRATION</button>
                    </td>
                    <td></td>
               </tr>
          </table>
     </form>
```
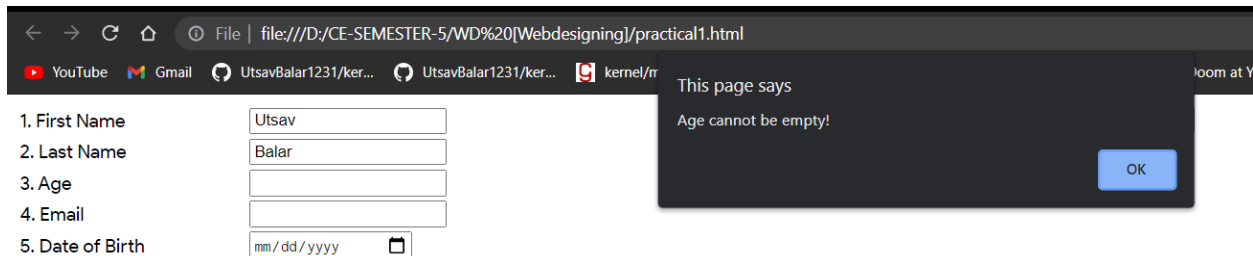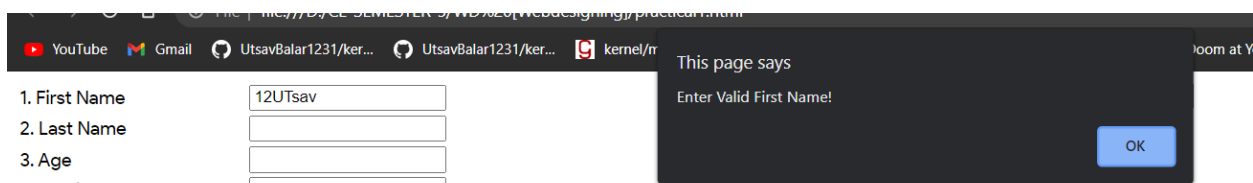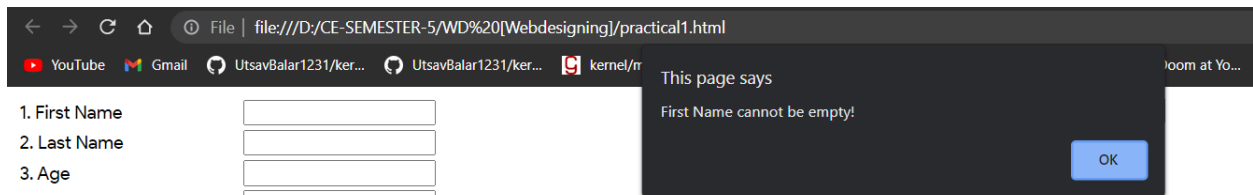
</body>

</html>

# Output:



| | |
|---|---|
| 1. First Name | |
| 2. Last Name | |
| 3. Age | |
| 4. Email | |
| 5. Date of Birth | mm/dd/yyyy |
| 6. Gender | ● Male ○ Female ○ Other |
| 7. Choose your department | B.Tech ▾ |
| 8. Mobile Number | |
| 9. Enter Address | |

REGISTRATION



← → C ⌂  ⓘ File | file:///D:/CE-SEMESTER-5/WD%20[Webdesigning]/practical1.html

▶ YouTube  M Gmail  UtsavBalar1231/ker...  UtsavBalar1231/ker...  kernel/m

1. First Name
2. Last Name
3. Age
4. Email
5. Date of Birth  mm/dd/yyyy

This page says
First Name cannot be empty!

OK

← → C ⌂  ⓘ File | file:///D:/CE-SEMESTER-5/WD%20[Webdesigning]/practical1.html

▶ YouTube  M Gmail  UtsavBalar1231/ker...  UtsavBalar1231/ker...  kernel/m

1. First Name  12UTsav
2. Last Name
3. Age
4. Email
5. Date of Birth  mm/dd/yyyy
6. Gender  ● Male ○ Female ○ Other

This page says
Enter Valid First Name!

OK

← → C ⌂  ⓘ File | file:///D:/CE-SEMESTER-5/WD%20[Webdesigning]/practical1.html

▶ YouTube  M Gmail  UtsavBalar1231/ker...  UtsavBalar1231/ker...  kernel/m

1. First Name  Utsav
2. Last Name  Balar
3. Age
4. Email
5. Date of Birth  mm/dd/yyyy

This page says
Age cannot be empty!

OK

2. Last Name — Balar
3. Age — 20
4. Email — abcd

⚠ Please include an '@' in the email address. 'abcd' is missing an '@'.

5. Date...
6. Gen...
7. Choose your department — B.Tech

---

File | file:///D:/CE-SEMESTER-5/WD%20[Webdesigning]/practical1.html

1. First Name — Utsav
2. Last Name — Balar
3. Age — 20
4. Email — utsavbalar1231@gmail.co
5. Date of Birth — 07/05/2021
6. Gender — ● Male ○ Female ○ Other
7. Choose your department — B.Tech

This page says
Incorrect Date of Birth (Check your Age)
OK

---

1. First Name — Utsav
2. Last Name — Balar
3. Age — 20
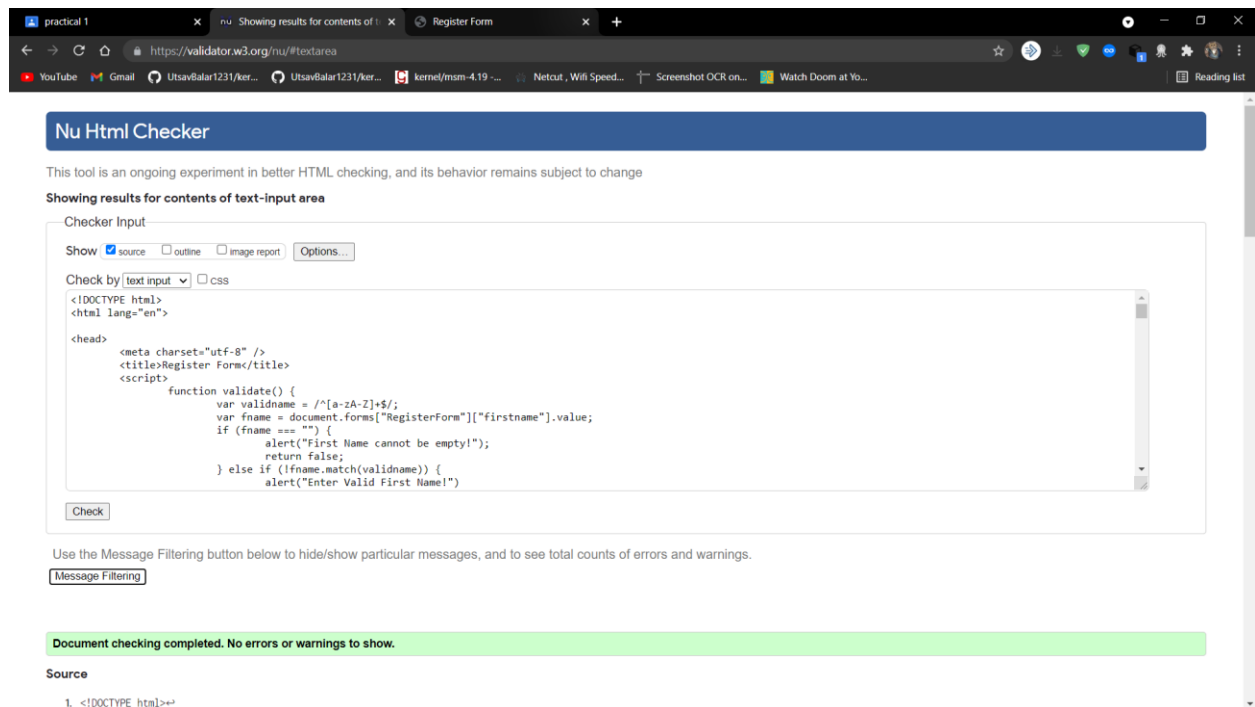4. Email — utsavbalar1231@gmail.co
5. Date of Birth — 11/13/2001
6. Gender — ● Male ○ Female ○ Other
7. Choose your department — B.Tech
8. Mobile Number — abdc

This page says
Please Enter a valid phone number
OK

---

1. First Name — Utsav
2. Last Name — Balar
3. Age — 20
4. Email — utsavbalar1231@gmail.co
5. Date of Birth — 11/13/2001
6. Gender — ● Male ○ Female ○ Other
7. Choose your department — B.Tech
8. Mobile Number — 00000000

This page says
Please Enter a valid phone number
OK

## Practical 2

### AIM:

**a. Write a PHP program to display today's date in dd-mm-yyyy format.**

**b. Write a PHP program for swapping of two numbers.**

**c. Write a PHP program to print following pattern.**


**1**

**01**

**101**

**0101**

**10101**

## Code:

practical2.php

```php
<?php
// practical 2a
print "Date: " . date("m/d/Y") . "<br>";


// practical 2b
$x = 20;
$y = 100;
print "Value of a and b before swapping is $x and $y respectively<br>";
$x = $x + $y;
$y = $x - $y;
$x = $x - $y;
print "Value of a and b after swapping is $x and $y respectively<br>";


// practical 2c
$n = 5;
for ($i = 0;$i <= $n;$i++)
{
   for ($j = 1;$j <= $i;$j++)
   {
      if (($i + $j) % 2 == 0) print "\t 1";
      else print "\t 0";
   }
   print "<br>";
}
?>
```
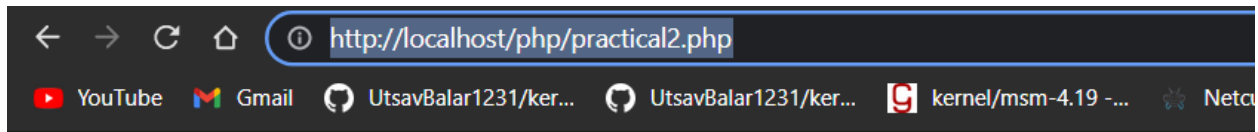
**Output:**

Date: 07/05/2021
Value of a and b before swapping is 20 and 100 respectively
Value of a and b after swapping is 100 and 20 respectively

1
0 1
1 0 1
0 1 0 1
1 0 1 0 1


# Practical 3

## AIM:

**Write a PHP program to apply following string functions on data of file and save the result in the same file.**

**strtolower(), strtoupper(), strlen(), ltrim(), rtrim(), trim(), substr(),**

**strcmp(), strcasecmp(), strpos(), str_replace(), strrev().**


## Code:

```php
<?php
$mystr = "Knowing the will of the heavens, The Father is unrivaled!";
print "<b>mystr = </b> $mystr";
print '<br><b>strtolower($mystr):</b> ' . strtolower($mystr);
print '<br><b>strtoupper($mystr):</b> ' . strtoupper($mystr);
print '<br><b>strlen($mystr):</b> ' . strlen($mystr);
print '<br><b>ltrim($mystr, "heavens"):</b> ' . ltrim($mystr, "heavens");
print '<br><b>rtrim($mystr, "heavens"):</b> ' . rtrim($mystr, "heavens");
print '<br><b>trim($mystr, "heavens"):</b> ' . trim($mystr, "heavens");
print '<br><b>substr($mystr, 12, 20):</b> ' . substr($mystr, 12, 20);
```

print '<br><b>strcmp($mystr, "will of the heavens"):</b> ' . strcmp($mystr, "will of the heavens");

print '<br><b>strcasecmp($mystr, "heavens, The Father is unrivaled!"):</b> ' . strcasecmp($mystr, "heavens, The Father is unrivaled!");

print '<br><b>strpos($mystr, "heavens"): </b>' . strpos($mystr, "heavens");
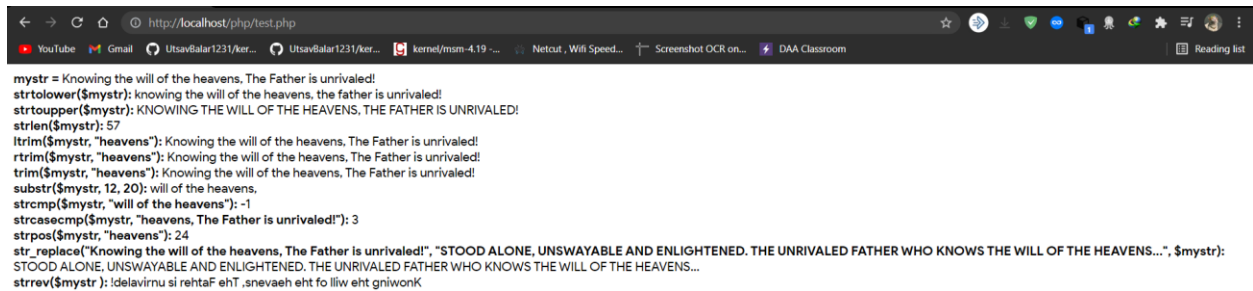
print '<br><b>str_replace("Knowing the will of the heavens, The Father is unrivaled!", "STOOD ALONE, UNSWAYABLE AND ENLIGHTENED. THE UNRIVALED FATHER WHO KNOWS THE WILL OF THE HEAVENS...", $mystr): </b>' . str_replace("Knowing the will of the heavens, The Father is unrivaled!", "STOOD ALONE, UNSWAYABLE AND ENLIGHTENED. THE UNRIVALED FATHER WHO KNOWS THE WILL OF THE HEAVENS...", $mystr);

print '<br><b>strrev($mystr ): </b>' . strrev($mystr);

?>

## Output:



mystr = Knowing the will of the heavens, The Father is unrivaled!
strtolower($mystr): knowing the will of the heavens, the father is unrivaled!
strtoupper($mystr): KNOWING THE WILL OF THE HEAVENS, THE FATHER IS UNRIVALED!
strlen($mystr): 57
ltrim($mystr, "heavens"): Knowing the will of the heavens, The Father is unrivaled!
rtrim($mystr, "heavens"): Knowing the will of the heavens, The Father is unrivaled!
trim($mystr, "heavens"): Knowing the will of the heavens, The Father is unrivaled!
substr($mystr, 12, 20): will of the heavens,
strcmp($mystr, "will of the heavens"): -1
strcasecmp($mystr, "heavens, The Father is unrivaled!"): 3
strpos($mystr, "heavens"): 24
str_replace("Knowing the will of the heavens, The Father is unrivaled!", "STOOD ALONE, UNSWAYABLE AND ENLIGHTENED. THE UNRIVALED FATHER WHO KNOWS THE WILL OF THE HEAVENS...", $mystr): STOOD ALONE, UNSWAYABLE AND ENLIGHTENED. THE UNRIVALED FATHER WHO KNOWS THE WILL OF THE HEAVENS...
strrev($mystr ): !delavirnu si rehtaF ehT ,snevaeh eht fo lliw eht gniwonK