## **EXPERIMENT 10**

10.1: Here is a complete HTML form with **Email ID validation**, **Length validation** (for password), and **Retype password validation** using HTML5 and simple JavaScript.

```
<!DOCTYPE html>
 <title>Registration Form Validation</title>
 <link rel="stylesheet" href="exp101.css">
function validateForm() {
     var email = document.getElementById("email").value;
     var password = document.getElementById("password").value;
     var retype = document.getElementById("retype").value;
     var emailPattern = /^[^@]+@\w+(\.\w+)+\w$/;
     if (!emailPattern.test(email)) {
       alert("Please enter a valid email address.");
     if (password.length < 8) {</pre>
       alert("Password must be at least 8 characters long.");
     if (password !== retype) {
       alert("Passwords do not match.");
 <div class="form-container">
   <h2>Register</h2>
  <form onsubmit="return validateForm();">
     <label for="email">Email</label>
     <input type="email" id="email" name="email" required>
     <label for="password">Password</label>
     <input type="password" id="password" name="password" required minlength="8" placeholder="Min 8 characters">
     <label for="retype">Retype Password</label>
     <input type="password" id="retype" name="retype" required minlength="8" placeholder="Re-enter password">
     <input type="submit" value="Register">
```

## Output:-



- o 10.2:-a) write a php program to print all months of a year using a switch case.
- o b) Using for loop and while loop print all the planets and their moons in php
- o C)Find the factorial of a number
- o d) Armstrong number using php
- o e) prime number in php

## Output:-

```
January
February
March
April
May
June
July
August
September
October
November
December
```

## output:-

```
--- Using for loop ---
Mercury: No moon
Venus: No moon
Earth: Moon
Mars: Phobos, Deimos
Jupiter: Io, Europa, Ganymede, Callisto
Saturn: Titan, Enceladus, Rhea, Mimas
Uranus: Miranda, Ariel, Umbriel, Titania, Oberon
Neptune: Triton, Proteus
 --- Using while loop ---
Mercury: No moon
Venus: No moon
Earth: Moon
Mars: Phobos, Deimos
Jupiter: Io, Europa, Ganymede, Callisto
Saturn: Titan, Enceladus, Rhea, Mimas
Uranus: Miranda, Ariel, Umbriel, Titania, Oberon
Neptune: Triton, Proteus
```

output:-

120

```
<?php
function isArmstrong($number) {
    $sum = 0;
    $temp = $number;
    $digits = strlen((string)$number);

while ($temp != 0) {
    $rem = $temp % 10;
    $sum += pow($rem, $digits);
    $temp = (int)($temp / 10);
}
    return ($number == $sum);
}
echo isArmstrong(153) ? "Yes" : "No"; // Output: Yes
?>
```

d)

output:-

```
<?php
function isPrime($num) {
    if ($num <= 1) return false;
    for ($i = 2; $i <= sqrt($num); $i++) {
        if ($num % $i == 0) return false;
    }
    return true;
}
echo isPrime(7) ? "Prime" : "Not Prime"; // Output: Prime
?>
```

output:-

Prime

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