1. Fibanacci number

```html
<html>
<head>
<title> Fibonacci Series in JavaScript </title>
</head>
<body>
<script>

var n1 = 0,  n2 = 1, next_num, i;
var num = parseInt (prompt (" Enter the limit for Fibonacci Series "));
document.write( "Fibonacci Series: ");
for ( i = 1; i <= num; i++)
{
    document.write (" <br> " + n1);
  next_num = n1 + n2;

  n1 = n2;
  n2 = next_num;
}

</script>
</body>
</html>
```

2. External and internal style sheets

```html
<!DOCTYPE html>

<html>

  <head>

    <title>First lab program</title>

    <link rel="stylesheet" type="text/css" href="ab.css">

  </head>

  <body style="font-size: 20px;">

  <p>devloped demonstrate axHTML document the use of</p>

  <ol>
```

```html
    <li>external style sheet</li>
    <li>order list</li>
    <li>table</li>
    <li>border</li>
    <li>pedding</li>
    <li>color</li>
    <li>the tag</li>
</ol>
<center><h1>the table creation using external style sheet </h1></center>
<center><table style="width: 30%;">
<table bgcolor="yellow">
<tr>
    <th><div>NAME</div></th>
    <th><div>AGE</div></th>
    <th><div>CITY</div><th>
    <th><div>QULIFICATION</div></th>
</tr>
<tr>
    <td><div>Mj pintya</div></td>
    <td><div>24</div></td>
    <td><div>belgav</div></td>
    <td><div>MCA</div></td>
</tr>
<tr>
    <td><div>rakesh mali</div></td>
    <td><div>24</div></td>
    <td><div>belgavi</div></td>
    <td><div>MCA</div></td>
</tr>
<tr>
    <td><div>nilesh m</div></td>
```

```html
      <td><div>25</div></td>

      <td><div>belgavi</div></td>

      <td><div>MCA</div></td>

    </tr>

    <tr>

      <td><div>sagar patil</div></td>

      <td><div>24</div></td>

      <td><div>belgavi</div></td>

      <td><div>MCA</div></td>

    </tr>

    <tr>

      <td><div>nagaraj t</div></td>

      <td><div>24</div></td>

      <td><div>belgavi</div></td>

      <td><div>MCA</div></td>

    </tr>

    <tr>

      <td><div>monesh g</div></td>

      <td><div>25</div></td>

      <td><div>belgavi</div></td>

      <td><div>MCA</div></td>

    </tr>

    <tr>

      <td><div>suraj v</div></td>

      <td><div>23</div></td>

      <td><div>nippani</div></td>

      <td><div>MCA</div></td>

    </tr>

    </table></center>

</body>

</html>
```

Ab.css

```css
h1{
    color: brow;
}
p{
    color: red;
}
ol{
    color: black;
}
table,th,td{


    border : 1px solid black;
}
tr,div{
    padding-top: 5px; padding-right: 3px; padding-bottom: 5px; padding-left: 3px;
}
```

3. Students using css and xml

```xml
<?xml version="1.0"?>
<?xml-stylesheet type="text/css" href="xy.css"?>
<student>
<info>
USN:<usn>CS26011809</usn>
Name:<name>Nikk</name>
College:<coll>RCU Belgavi</coll>
Branch:<branch>Msc</branch>
year of joining<yoj>2022</yoj>
```

Email-ID:<email>nikk1@gmail.com</email>

</info>

<info>

USN:<usn>CS26011810</usn>

Name:<name>pintya</name>

College:<coll>RCU Belgavi</coll>

Branch:<branch>MCA</branch>

year of joining<yoj>2022</yoj>

Email-ID:<email>pintya143@gmail.com</email>

</info>

</student>

Xy.css

```css
student{

    margin-top: 15px;

    font-weight: bold;

    color:black;

}

h3{

    color: black;

}

info{

    display: block;

    margin-left: 15px;

    color: gray;

}

usn,name{

    color: red;

    font-size: 15pt;

}

coll,branch{
```

```css
    color: blue;

    font-size: 15pt;


}
yoj,email{

    color: green;

    font-size: 15pt;


}
h1{

    color: red;

    font-size: 15pt;

}
```

4. <u>Image hover</u>

```html
<!DOCTYPE html>

<html>

  <head>

    <meta name="viewport" content="width=device-width,initial-scale=1">

    <style>

      img:hover{

        -webkit-transform: scaleX(-1);

        transform: scaleX(-1);

      }

    </style>

  </head>

  <body>

    <h2>flip an image</h2>
```

```html
    <p>move your mouse over the image</p>

    <img src="D:\mca\_DSC0012.JPG" alt="paris"

    width="400" height="600">

  </body>

</html>
```

5.Popup message

```html
<!DOCTYPE html>

<html>

<head>

<meta name="viewport" content="width=device-width, initial-scale=1">

<style>

/* Popup container - can be anything you want */

.popup {

  position: relative;

  display: inline-block;

  cursor: pointer;

  -webkit-user-select: none;

  -moz-user-select: none;

  -ms-user-select: none;

  user-select: none;

}


/* The actual popup */

.popup .popuptext {

  visibility: hidden;

  width: 160px;

  background-color: #555;
```

```css
  color: #fff;

  text-align: center;

  border-radius: 6px;

  padding: 8px 0;

  position: absolute;

  z-index: 1;

  bottom: 125%;

  left: 50%;

  margin-left: -80px;

}


/* Popup arrow */
.popup .popuptext::after {

  content: "";

  position: absolute;

  top: 100%;

  left: 50%;

  margin-left: -5px;

  border-width: 5px;

  border-style: solid;

  border-color: #555 transparent transparent transparent;

}


/* Toggle this class - hide and show the popup */
.popup .show {

  visibility: visible;

  -webkit-animation: fadeIn 1s;

  animation: fadeIn 1s;

}


/* Add animation (fade in the popup) */
```

```
@-webkit-keyframes fadeIn {
  from {opacity: 0;}
  to {opacity: 1;}
}

@keyframes fadeIn {
  from {opacity: 0;}
  to {opacity:1 ;}
}
</style>
</head>
<body style="text-align:center">

<h2>Popup</h2>

<div class="popup" onclick="myFunction()">Click me to toggle the popup!
  <span class="popuptext" id="myPopup">A Simple Popup!</span>
</div>

<script>
// When the user clicks on div, open the popup
function myFunction() {
  var popup = document.getElementById("myPopup");
  popup.classList.toggle("show");
}
</script>

</body>
</html>
```

6. <u>Form validation</u>

```
<!DOCTYPE HTML>
 <html>
 <head>
 <style>
 .error {color: #FF0000;}
 </style>
 </head>
 <body>

 <?php
 // define variables and set to empty values
 $nameErr = $emailErr = $genderErr = $departmentErr = "";
 $name = $email = $gender = $comment = $department = "";

 if ($_SERVER["REQUEST_METHOD"] == "POST") {
  if (empty($_POST["name"])) {
    $nameErr = "Name is required";
  } else {
    $name = test_input($_POST["name"]);
    // check if name only contains letters and whitespace
    if (!preg_match("/^[a-zA-Z-' ]*$/",$name)) {
      $nameErr = "Only letters and white space allowed";
    }
  }
 }

  if (empty($_POST["email"])) {
    $emailErr = "Email is required";
  } else {
```

```php
    $email = test_input($_POST["email"]);
    // check if e-mail address is well-formed
    if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
      $emailErr = "Invalid email format";
    }
  }



if ($_SERVER["REQUEST_METHOD"] == "POST") {
 if (empty($_POST["department"])) {
   $departmentErr = "Department is required";
 } else {
   $department = test_input($_POST["department"]);
   // check if name only contains letters and whitespace
   if (!preg_match("/^[a-zA-Z-' ]*$/",$department)) {
     $departmentErr = "Only letters and white space allowed";
   }
 }
}



 if (empty($_POST["comment"])) {
   $comment = "";
 } else {
   $comment = test_input($_POST["comment"]);
 }



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

```php
  } else {
    $gender = test_input($_POST["gender"]);
  }



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

```html
<h2>PHP Form Validation Example</h2>
<p><span class="error"></span></p>
<form method="post" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]);?>">



Name: <input type="text" name="name" value="<?php echo $name;?>"required>
  <span class="error">* <?php echo $nameErr;?></span>
  <br><br>



E-mail: <input type="text" name="email" value="<?php echo $email;?>"required>
  <span class="error">* </span>
  <br><br>



 Department: <input type="text" name="department" value="<?php echo
$department;?>"required>
  <span class="error">*<?php echo $departmentErr;?></span>
```

```
    <br><br>

    Comment: <textarea name="comment" rows="5" cols="40"><?php echo $comment;?></textarea>

    <br><br>
```

```
Gender:
  <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) && $gender=="male") echo
"checked";?> value="male">Male
  <input type="radio" name="gender" <?php if (isset($gender) && $gender=="other") echo
"checked";?> value="other">Other
  <span class="error">* </span>
  <br><br>
  <input type="submit" name="submit" value="Submit">
</form>


<?php
echo "<h2>Your Input:</h2>";
echo $name;
echo "<br>";
echo $email;
echo "<br>";
echo $department;
echo "<br>";
echo $comment;
echo "<br>";
echo $gender;
?>
```

```
</body>

</html>
```