@{

ViewBag.Title = "JS Exercise";

}

<h2>JS Exercise</h2>

<!-- Trigger the modal with a button -->

<button type="button" class="btn btn-info btn-lg" data-toggle="modal" data-target="#myModal">JS Exercise 1</button>

@\*Exercise 1\*@

<!-- Modal -->

<div id="myModal" class="modal fade" role="dialog">

<div class="modal-dialog modal-lg">

<!-- Modal content-->

<div class="modal-content">

<div class="modal-header">

<button type="button" class="close" data-dismiss="modal">&times;</button>

<h4 class="modal-title">JavaScript Exercises:</h4>

</div>

<div class="modal-body">

<div class="row">

<div class="col-md-2">

<ul class="nav nav-pills nav-stacked">

<li class="active"><a data-toggle="pill" href="#ex1">Math Problems</a></li>

<li><a data-toggle="pill" href="#ex2">Factorial</a></li>

<li><a data-toggle="pill" href="#ex3">Fizz-Buzz</a></li>

<li><a data-toggle="pill" href="#ex4">Palindrome</a></li>

</ul>

</div>

<div class="col-md-10">

<div class="tab-content">

<div id="ex1" class="tab-pane fade in active">

<!-- using the BS Grid system to layout my labels and unputs-->

<div class="container">

<h3>Math Problems</h3>

<div class="row">

<div class="col-md-7">In the exercise I will prompt the user for a series of numbers, which I will use to perform operations and print out different arthimic opererations.</div>

</div>

<div class="row">

<div class="col-md-4">

<div class="row">

<div class="col-md-5">Enter number 1:</div>

<div class="col-md-2"><input id="ex1num1" type="number" placeholder=" Enter a Number" /></div>

</div>

<div class="row">

<div class="col-md-5">Enter number 2:</div>

<div class="col-md-2"><input id="ex1num2" type="number" placeholder=" Enter a Number" /></div>

</div>

<div class="row">

<div class="col-md-5">Enter number 2:</div>

<div class="col-md-2"><input id="ex1num3" type="number" placeholder=" Enter a Number" /></div>

</div>

<div class="row">

<div class="col-md-5">Enter number 2:</div>

<div class="col-md-2"><input id="ex1num4" type="number" placeholder=" Enter a Number" /></div>

</div>

<div class="row">

<div class="col-md-5">Enter number 2:</div>

<div class="col-md-2"><input id="ex1num5" type="number" placeholder=" Enter a Number" /></div>

</div>

</div>

<div class="col-md-2">

<button class="btn btn-group-sm" id="btnEx1">Click Here!!</button>

</div>

<div class="col-md-2">

<div class="row" id="ex1Out"></div>

<div class="row" id="ex1Out2"></div>

<div class="row" id="ex1Out3"></div>

<div class="row" id="ex1Out4"></div>

<div class="row" id="ex1Out5"></div>

</div>

</div>

</div>

</div>

<div id="ex2" class="tab-pane fade">

<div class="container">

<h3>Factorial Problem</h3>

<div class="row">

<div class="col-md-7">In the exercise I will prompt the user for a number, then I will figure out the factorial for said number.</div>

</div>

<div class="row">

<div class="col-md-4">

<div class="row">

<div class="col-md-5">Enter a number:</div>

<div class="col-md-2">

<input id="ex2num1" type="number" placeholder=" Enter a Number" />

</div>

</div>

</div>

<div class="col-md-2">

<div class="row">

<button type="button" class="btn btn-md" id="btnEx2">I want!</button>

</div>

</div>

<div clss="col-md-5">

<div class="row" id="ex2Out"></div>

<div class="row" id="ex2Out2"></div>

</div>

</div>

</div>

</div>

<div id="ex3" class="tab-pane fade">

<div class="container">

<h3>FizzBuzz Problem</h3>

<div class="row">

<div class="col-md-7">In the exercise I will prompt the user for a two numbers, then magic will happen and fizz, buzz, and fizzbuzz will appear on the screen randomly with tons of other numbers.</div>

</div>

<div class="row">

<div class="col-md-4">

<div class="row">

<div class="col-md-5">Enter a number 1:</div>

<div class="col-md-2">

<input id="ex3num1" type="number" min="1" max="100" placeholder="1-100" />

</div>

</div>

<div class="row">

<div class="col-md-5">Enter a number 2:</div>

<div class="col-md-2">

<input id="ex3num2" type="number" min="1" max="100" placeholder="1-100" />

</div>

</div>

</div>

<div class="col-md-1">

<div class="row">

<button type="button" class="btn btn-md" id="btnEx3">I am Button!!</button>

</div>

</div>

</div>

<div class="row">

<div class="col-md-5">

<div id="ex3Out"></div>

</div>

</div>

</div>

</div>

<div id="ex4" class="tab-pane fade">

<div class="container">

<h3>Palindrome Problem</h3>

<div class="row">

<div class="col-md-7">In the exercise I will prompt the user for a word, then I will determine if the word is a Palindrome.</div>

</div>

<div class="row">

<div class="col-md-4">

<div class="row">

<div class="col-md-4">Enter a word:</div>

<div class="col-md-2">

<input id="ex4word" type="text" placeholder=" Enter a Word" />

</div>

</div>

</div>

<div class="col-md-2">

<div class="row">

<button type="button" class="btn btn-md" id="btnEx4">I need your touch!</button>

</div>

</div>

<div class="col-md-5">

<div class="row" id="ex4Out"></div>

<div class="row" id="ex4Out2"></div>

</div>

</div>

</div>

</div>

<div class="modal-footer">

<button type="button" class="btn btn-default" data-dismiss="modal">Close</button>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

@section scripts{

<script>

//Exercise 1 button click (Numbers)

$("#btnEx1").click(function () {

//collect the data

var num1 = Number($('#ex1num1').val());

var num2 = Number($('#ex1num2').val());

var num3 = Number($('#ex1num3').val());

var num4 = Number($('#ex1num4').val());

var num5 = Number($('#ex1num5').val());

//Perform Math Equations

var sum = (num1 + num2 + num3 + num4 + num5);

var max = Math.max(num1, num2, num3, num4, num5);

var min = Math.min(num1, num2, num3, num4, num5);

var mean = ((num1 + num2 + num3 + num4 + num5) / 5);

var product = (num1 \* num2 \* num3 \* num4 \* num5);

//Output a result to the results area

$('#ex1Out').text("Sum: " + sum);

$('#ex1Out2').text("Largest Number: " + max);

$('#ex1Out3').text("Smallest Number: " + min);

$('#ex1Out4').text("Mean: " + mean);

$('#ex1Out5').text("Product:" + product);

})

//Exercise 2 button click (Factorial)

$('#btnEx2').click(function () {

// Input the number

var value = Number($('#ex2num1').val());

//If loop to determine if factorial possible

tempvalue = 1;

for (i = value; i > 0; i--) {

tempvalue \*= i;

}

//Output the results

$('#ex2Out').text(value + " Factorial is:")

$('#ex2Out2').text(tempvalue);

})

//Exercise 3 button click (fizzbuzz)

$('#btnEx3').click(function () {

//Retrieve the Numbers

var fizz = Number($('#ex3num1').val());

var buzz = Number($('#ex3num2').val());

var fizzbuzz = '';

//This is where the magic happens!

//output results straight from the for/if loops

//compose a string, then at the end display the results

for (var i = 1; i <= 100; i++) {

if (i % fizz == 0 && i % buzz == 0) {

//Look for the condition fizz and buzz together, a multiple of fizz and buzz together

fizzbuzz = fizzbuzz + " Fizz-Buzz, ";

}

else if (i % fizz == 0) {

//Look for the condition of fizz, a multiple of the first number selected

fizzbuzz = fizzbuzz + " Fizz, ";

}

else if (i % buzz == 0) {

//Look for the condition of buzz, a multiple of the second number selected

fizzbuzz = fizzbuzz + " Buzz, ";

}

else {

fizzbuzz = fizzbuzz + i + ", ";

}

var fb = fizzbuzz;

fb = fb.slice(0, -2);

$('#ex3Out').text(fb);

};

})

//Exercise 4 button click (Palindrome)

$('#btnEx4').click(function () {

// retrieve word

var palindrome = $('#ex4word').val();

//take spaces out of word

palindrome = palindrome.replace(/\s/g, '');

//using built in functions I will reverse the word or phrase

var test = palindrome.split('');

var test2 = test.reverse();

test2 = test2.join('').toLowerCase();

palindrome = palindrome.toLowerCase();

if (test2 == palindrome) {

$('#ex4Out').text("This word is a");

$('#ex4Out2').text('Palindrome');

}

else {

$('#ex4Out').text("These word is NOT a");

$('#ex4Out2').text('Palindrome');

}

})

</script>

}