MARCH 23-27, 2020
TOPIC: If Else If Statement

If Statement

The **If statement** is one of the most popular and most important conditional construct in JavaScript and in many other programming languages. This conditional statement construct evaluates a condition to True or False. It the run a specific code depending on the result of the evaluation.

Syntax:

```
if(condition)
{code to run if the condition is True}
```

If Else Statement

The If Else is similar to the If statement, except that we are giving an alternative instruction in case the argument isn't True.

Syntax:

```
if(condition)
{code to run if the condition is True}

else
{code to run if the condition is False}
```

If Else If Statement

In the real world, you don't have to evaluate just one condition. Sometimes, you would need to evaluate more than one or multiple conditions.

That is possible in JavaScript with the **If Else If statement**. The name refers to an If statement that depends on another IF statement.

Syntax:

```
if(condition)
{code to run if the condition is True}

else if(condition)
{code to run if the condition is True based on second condition}

else
{code to run if the condition is False based on the second condition}
```

Reference:

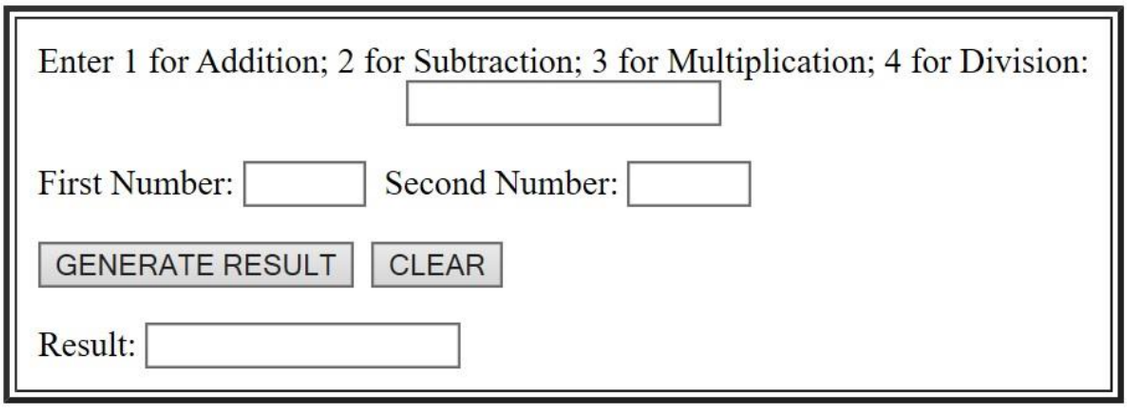
Web Scripting
By: I.C. Topia ICT Training for the Future pp. 144 - 147

TO DO LIST

DAY 1:

In any text editor program, encode the following HTML codes. Save your work and explore on the output.

```
<html>
  <head><title>MATHEMATICAL OPERATIONS</title>
    <script type = "text/javascript">
      function OPERATOR()
      {
        var I = document.MATH.A.value
        var L = Number(document.MATH.n1.value)
        var Y = Number(document.MATH.n2.value)
        if (I==1)
        {
          var S = L + Y
          document.MATH.res.value = S
        }
        else if (I==2)
        {
          var D = L - Y
          document.MATH.res.value = D
        }
        else if (I==3)
        {
          var M = L * Y
          document.MATH.res.value = M
        }
        else if (I==4)
        {
          var D = L / Y
          document.MATH.res.value = D
        }
        else
        {
          alert("PLEASE TRY AGAIN")
        }
       }
    </script>
  </head>
  <body>
    <table border = "3" bordercolor = "black" cellpadding = "10" align = "center">
      <tr><td>
        <form name = "MATH">
          Enter 1 for Addition; 2 for Subtraction; 3 for Multiplication; 4 for Division:</br>
          <center><input type = "text" name = "A"></center><p>
          First Number: <input type = "text" name = "n1" size = "5"> 
          Second Number: <input type = "text" name = "n2" size = "5"><p>
          <input type = "button" value = "GENERATE RESULT" onClick = "OPERATOR()"> 
          <input type = "reset" value = "CLEAR"><p>
          Result: <input type = "text" name = "res">
        </form>
      </td></tr>
    </table>
  </body>
</html>
```



DAY 2:

Guide Questions:

1. Have you come up with same output? Does it run smoothly? If yes, proceed to # 2, if not, analyze, look for the syntax errors and debug your codes.
2. Based on your experience on the previous activity, which do you think is better if statement, if-else statement or if-else if statement?
3. What do you think are the advantages of each control statements over the other?