# Input

1. HTML Form
   1. Number input field that retrieves the temperature amount
   2. Two radio buttons
      1. Fahrenheit Selection
      2. Celsius Selection

# Output

1. Span tag
   1. The converted Fahrenheit or Celsius temperature
   2. The appropriate message for the given temperature
      1. “It’s super cold today! Watch out for ice.”
      2. “It’s chilly, grab a sweater.”
      3. “It’s looking good today, maybe don’t grab a jacket.”
      4. “Better grab those shorts and kick on the AC!”

# Process

## When the Page Loads

1. HTML Form
   1. Number input field
      1. name=”numAmount”
   2. Two radio buttons
      1. Fahrenheit
         1. name=”radioTemp” value=”fahrenheit”
      2. Celsius
         1. name=”radioTemp” value=”celsius”
   3. Button
      1. name=”btnConvert”
2. Span tag
   1. Id=”spnTempF”
   2. Id=”spnTempC”
   3. Id=”spnMsg”
3. Store the HTML objects
   1. spnTempF
   2. spnTempC
   3. spnMsg
   4. btnConvert

## When the Button is Clicked

1. Store the input values into variables and bind some more for future use
   1. numAmount
   2. numAmountF
   3. numAmountC
   4. txtTemp
      1. This can be a function
   5. txtMsg
2. Create a logical control structure to see what type of temperature formula needs to be used
   1. If txtTemp == Fahrenheit
      1. Convert to Celsius
         1. This can be a function
   2. Else
      1. Convert to Fahrenheit
         1. This can be a function
3. Create a logical structure to return a message for the appropriate temperature.
   1. If numAmountF <= 40
   2. If numAmountF <= 65
   3. If numAmountF <= 85
   4. Else (> 85)
4. Apply the temperatures and the correct message to the appropriate span tags
   1. $(“spnTempF”).innerHTML = numAmountF
   2. $(“spnTempC”).innerHTML = numAmountC
   3. $(“spnMsg”).innerHTML = txtMsg
5. Display the span tags!