<Window x:Class="Moon\_Calculator\_03.MainWindow"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:Moon\_Calculator\_03"

mc:Ignorable="d"

Title=" JP Moon's Scientific Calculator" Height="500" Width="800" MinHeight="400" MinWidth="700" KeyDown="Window\_KeyDown"

Background="#FFEAE3E3">

<DockPanel LastChildFill="True">

<!-- 메뉴 -->

<Menu Padding="5" DockPanel.Dock="Top" Background="WhiteSmoke">

<MenuItem Header="선택" FontSize="15">

<MenuItem Header="표준"/>

<MenuItem Header="공학용"/>

</MenuItem>

<MenuItem Header="Exit" Click = "Exit\_Click" FontSize="15"/>

</Menu>

<!-- 결과창 -->

<Grid Height="110" DockPanel.Dock="Top" Background="WhiteSmoke">

<TextBox x:Name="txtExp" FontSize="16" HorizontalContentAlignment="Right"

Margin="5,5,5,5" Text="0" BorderThickness="0"

VerticalAlignment="top"

Background="#FFEAEDDA"></TextBox>

<TextBox x:Name="txtResult" FontSize="20" HorizontalContentAlignment="Right"

VerticalAlignment="Center" FontWeight="Bold"

BorderThickness="1,1,1,1" Margin="5,5,5,5"

Text="0" Background="#FFD1E8E8" BorderBrush="#FFA9B7E0" ></TextBox>

<TextBox x:Name="HexResult" FontSize="20" HorizontalContentAlignment="Left"

VerticalAlignment="Bottom" FontWeight="Bold"

BorderThickness="0" Margin="5,5,5,5"

Text="HEX : " Background="WhiteSmoke" HorizontalAlignment="Right" ></TextBox>

</Grid>

<Grid Height="80" DockPanel.Dock="Bottom" Background="WhiteSmoke">

<TextBox x:Name="History" FontSize="16" HorizontalContentAlignment="Right"

Margin="5,5,5,5" Text="" BorderThickness="1,1,1,1"

Background="#FFEAE4E4" BorderBrush="#FF063FEC" VerticalScrollBarVisibility="Auto" TextWrapping="Wrap" VerticalAlignment="Stretch" HorizontalAlignment="Stretch"></TextBox>

</Grid>

<!-- 버튼들 -->

<Grid>

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<!--첫번째 줄-->

<Button Grid.Row="0" Grid.Column="0" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnSin" Click="btnFun1\_Click"

Background="#FFB48C8C">sin</Button>

<Button Grid.Row="0" Grid.Column="1" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btn\_Cos" Click="btnFun1\_Click"

Background="#FFC19090">cos</Button>

<Button Grid.Row="0" Grid.Column="2" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btn\_Tan" Click="btnFun1\_Click"

Background="#FFC19090">tan</Button>

<Button Grid.Row="0" Grid.Column="3" Margin="3,1,3,1" FontSize="20"

BorderThickness="0" x:Name="btnPi" Click="btnConst\_Click" Background="#FFA5D2C9">π</Button>

<Button Grid.Row="0" Grid.Column="4" Margin="3,1,3,1" FontSize="20"

BorderThickness="0" x:Name="btnLC" Background="#FFDBDC86">(</Button>

<Button Grid.Row="0" Grid.Column="5" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnRC" Background="#FFDBDC86">)</Button>

<Button Grid.Row="0" Grid.Column="6" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnC" Click="btnClear\_Click">C</Button>

<Button Grid.Row="0" Grid.Column="7" Margin="6,1,1,1" FontSize="20"

BorderThickness="0" Background="#FFCCA3CB" Click="btn\_Click">7</Button>

<Button Grid.Row="0" Grid.Column="8" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" Background="#FFCCA3CB" Click="btn\_Click">8</Button>

<Button Grid.Row="0" Grid.Column="9" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" Background="#FFCCA3CB" Click="btn\_Click">9</Button>

<Button Grid.Row="0" Grid.Column="10" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btn\_mul" Click="btnFun2\_Click" Background="#FFACD19A">\*</Button>

<!--두번째 줄-->

<Button Grid.Row="1" Grid.Column="0" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnAsin" Click="btnFun1\_Click"

Background="#FFC19090">asin</Button>

<Button Grid.Row="1" Grid.Column="1" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnAcos" Click="btnFun1\_Click"

Background="#FFC19090">acos</Button>

<Button Grid.Row="1" Grid.Column="2" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnAtan" Click="btnFun1\_Click"

Background="#FFC19090">atan</Button>

<Button Grid.Row="1" Grid.Column="3" Margin="3,1,3,1" FontSize="20"

BorderThickness="0" x:Name="btne" Click="btnConst\_Click"

Background="#FFA5D2C9">e</Button>

<Button Grid.Row="1" Grid.Column="4" Margin="3,1,3,1" FontSize="20"

BorderThickness="0" x:Name="btn2n" Click="btnFun1\_Click">2ⁿ</Button>

<Button Grid.Row="1" Grid.Column="5" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btn10n" Click="btnFun1\_Click">10ⁿ</Button>

<Button Grid.Row="1" Grid.Column="6" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnCE" Click="btnEntryClear\_Click" >CE</Button>

<Button Grid.Row="1" Grid.Column="7" Margin="6,1,1,1" FontSize="20"

BorderThickness="0" Background="#FFCCA3CB" Click="btn\_Click">4</Button>

<Button Grid.Row="1" Grid.Column="8" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" Background="#FFCCA3CB" Click="btn\_Click">5</Button>

<Button Grid.Row="1" Grid.Column="9" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" Background="#FFCCA3CB" Click="btn\_Click">6</Button>

<Button Grid.Row="1" Grid.Column="10" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnDiv" Click="btnFun2\_Click" Background="#FFACD19A">÷</Button>

<!--세번째 줄-->

<Button Grid.Row="2" Grid.Column="0" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnSinh" Click="btnFun1\_Click"

Background="#FFC19090">sinh</Button>

<Button Grid.Row="2" Grid.Column="1" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnCosh" Click="btnFun1\_Click"

Background="#FFC19090">cosh</Button>

<Button Grid.Row="2" Grid.Column="2" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnTanh" Click="btnFun1\_Click"

Background="#FFC19090">tanh</Button>

<Button Grid.Row="2" Grid.Column="3" Margin="3,1,3,1" FontSize="20"

BorderThickness="0" x:Name="btnen" Click="btnFun1\_Click">eⁿ</Button>

<Button Grid.Row="2" Grid.Column="4" Margin="3,1,3,1" FontSize="20"

BorderThickness="0" x:Name="btnxn" Click="btnFun2\_Click">xⁿ</Button>

<Button Grid.Row="2" Grid.Column="5" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnlog" Click="btnFun1\_Click">log10</Button>

<Button Grid.Row="2" Grid.Column="6" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btn1ofx" Click="btnFun1\_Click">1/x</Button>

<Button Grid.Row="2" Grid.Column="7" Margin="6,1,1,1" FontSize="20"

BorderThickness="0" Background="#FFCCA3CB" Click="btn\_Click">1</Button>

<Button Grid.Row="2" Grid.Column="8" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" Background="#FFCCA3CB" Click="btn\_Click">2</Button>

<Button Grid.Row="2" Grid.Column="9" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" Background="#FFCCA3CB" Click="btn\_Click">3</Button>

<Button Grid.Row="2" Grid.Column="10" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btn\_add" Click="btnFun2\_Click" Background="#FFACD19A">+</Button>

<!--네번째 줄-->

<Button Grid.Row="3" Grid.Column="0" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnAsinh" Click="btnFun1\_Click"

Background="#FFC19090">asinh</Button>

<Button Grid.Row="3" Grid.Column="1" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnAcosh" Click="btnFun1\_Click"

Background="#FFC19090">acosh</Button>

<Button Grid.Row="3" Grid.Column="2" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnAtanh" Click="btnFun1\_Click"

Background="#FFC19090">atanh</Button>

<Button Grid.Row="3" Grid.Column="3" Margin="3,1,3,1" FontSize="20"

BorderThickness="0" x:Name="btnx2" Click="btnFun1\_Click">x²</Button>

<Button Grid.Row="3" Grid.Column="4" Margin="3,1,3,1" FontSize="20"

BorderThickness="0" x:Name="btnnFac" Click="btnFun1\_Click">n!</Button>

<Button Grid.Row="3" Grid.Column="5" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnln" Click="btnFun1\_Click">log2</Button>

<Button Grid.Row="3" Grid.Column="6" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnMp" Click="btnCopy\_Click">Mp</Button>

<Button Grid.Row="3" Grid.Column="7" Margin="6,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnSqrt2" Click="btnFun1\_Click"

Background="#FFCCA3CB">√</Button>

<Button Grid.Row="3" Grid.Column="8" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" Background="#FFCCA3CB" Click="btn\_Click">0</Button>

<Button Grid.Row="3" Grid.Column="9" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnBS" Click="btnDelete\_Click"

Background="#FFCCA3CB">←</Button>

<Button Grid.Row="3" Grid.Column="10" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnSub" Click="btnFun2\_Click" Background="#FFACD19A">-</Button>

<!--다섯번째 줄-->

<Button Grid.Row="4" Grid.Column="0" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnHEX" Click="btnHEX\_Click" Background="#FF9A95D4">Hex</Button>

<Button Grid.Row="4" Grid.Column="1" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnnCr" Background="#FFDBDC86"></Button>

<Button Grid.Row="4" Grid.Column="2" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnnPr" Background="#FFDBDC86"></Button>

<Button Grid.Row="4" Grid.Column="3" Margin="3,1,3,1" FontSize="20"

BorderThickness="0" x:Name="btnmod" Click="btnFun2\_Click">mod</Button>

<Button Grid.Row="4" Grid.Column="4" Margin="3,1,3,1" FontSize="20"

BorderThickness="0" x:Name="btnnRoot" Click="btnFun2\_Click">ⁿ√</Button>

<Button Grid.Row="4" Grid.Column="5" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnpercent" Click="btnConst\_Click">%</Button>

<Button Grid.Row="4" Grid.Column="6" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnMcopy" Click="btnCopy\_Click">Mc</Button>

<Button Grid.Row="4" Grid.Column="7" Margin="6,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btnsign" Click="btnsign\_Click" Background="#FFCA857A">+/-</Button>

<Button Grid.Row="4" Grid.Column="8" Margin="2,1,1,1" FontSize="20"

BorderThickness="0" x:Name="btndot" Click="btndot\_Click" Background="#FFCA857A">.</Button>

<Button Grid.Row="4" Grid.Column="9" Margin="2,1,0,1" FontSize="30"

BorderThickness="0" x:Name="btnEnter" Background="#FF913959"

Grid.ColumnSpan="2" Click="btnEnter\_Click">=</Button>

</Grid>

</DockPanel>

</Window>