**Task 6**

**Add to your framework a menu named Time Domain that includes the following features:**

1. **Smoothing: Compute moving average y(n) for signal x(n) let the user enter the number of points included in averaging. 1**
2. **Sharpening: Compute and display y (n) which represents**

**First Derivative of input signal**

**Y(n) = x(n)-x(n-1)**

**Second derivative of input signal**

**Y(n)= x(n+1)-2x(n)+x(n-1) 2**

1. **Delaying or advancing a signal by k steps. 1**
2. **Folding a signal. 1**
3. **Delaying or advancing a folded signal. 1**
4. **Remove the DC component in frequency domain. 1**
5. **The ability to convolve two signals. 3**