**Adder Testcases:**

**Adder\_TestCase1**

Input: Two files to be added (Signal1.ds and Signal2.ds)

Output: One file the result of the addition (Adder\_TestCase1.ds)

**Adder\_TestCase2**

Input: Two files to be added (Signal1.ds and Signal3.ds)

Output: One file the result of the addition (Adder\_TestCase2.ds)

**Adder\_TestCase3**

Input: Two files to be added (Signal4.ds and Signal5.ds)

Output: One file the result of the addition (Adder\_TestCase3.ds)

**Subtractor Testcases:**

**Subtractor\_TestCase1**

Input: Two files to be subtracted (Signal1.ds and Signal2.ds)

Output: One file the result of the subtraction of signal2 from signal1 (Subtractor\_TestCase1.ds)

**Subtractor \_TestCase2**

Input: Two files to be subtracted (Signal1.ds and Signal3.ds)

Output: One file the result of the subtraction of signal3 from signal1 (Subtractor\_TestCase3.ds)

**MultiplySignalByConstant Testcases:**

**MultiplySignalByConstant\_TestCase1**

Input: Signal1.ds file and constant = 5

Output: Signal1 multiplied by 5 (MultiplyByConstant\_TestCase1.ds)

**MultiplySignalByConstant\_TestCase2**

Input: Signal2.ds file and constant = 10

Output: Signal2 multiplied by 5 (MultiplyByConstant\_TestCase2.ds)

**Quantization and Encoding Testcases:**

**TestCase1**

Input: SignalToBeQuantized1.ds file and number of bits=3

Output: QuantizedValues1.ds and EncodedValues1.ds files

**TestCase2**

Input: SignalToBeQuantized2.ds file and number of levels = 8

Output: QuantizedValues2.ds and EncodedValues2.ds files

**TestCase3**

Input: SignalToBeQuantized3.ds file and number of levels = 4

Output: SampleError3.ds file