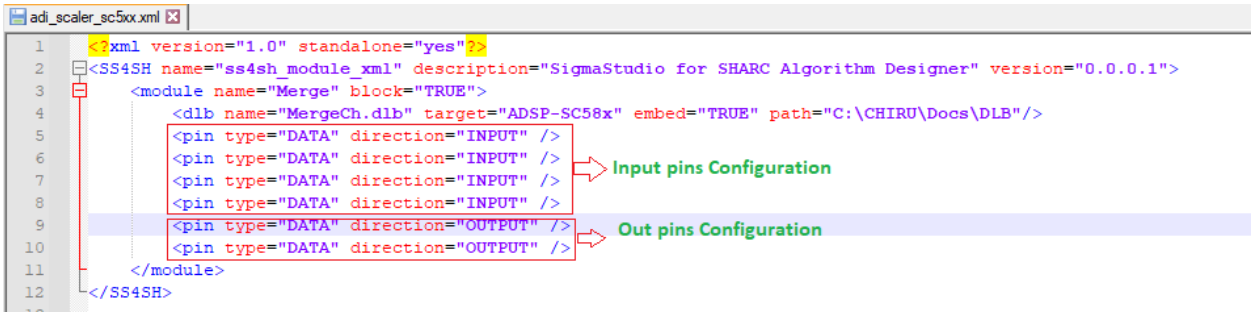
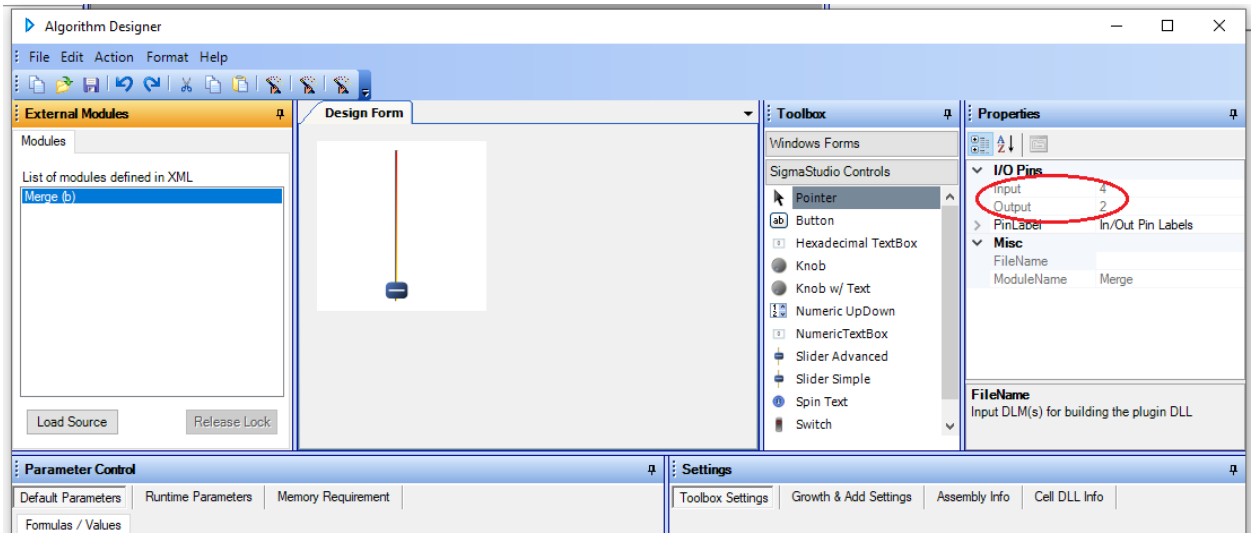
1. We can configure the inputs and outputs in xml file as shown in the below image.




2. After adding xml file with above settings into algorithm designer, we can see the pin information in the designer window as shown below.




3. Please use **nInputs** for inChs and **nOutputs** for outChs in the C code which you shared.

```
void BPROCESS_Merge (SSBlockAlgo* pBlkAlgoInfo)

{
   int blockSize, outChs, inChs;
          int out_ch,in_ch,sample=0;
    float *pInput, *pOutput;

    inChs =pBlkAlgoInfo->nInputs;

    outChs = pBlkAlgoInfo->nOutputs;
```

```
    for(out_ch = 0; out_ch < outChs; out_ch++)

    {
              pOutput = pBlkAlgoInfo->pOutputs[out_ch].pSamples;

      blockSize = pBlkAlgoInfo->pInputs[out_ch].pBlockProperties->nBlockSize;

      for(sample = 0; sample < blockSize; sample++)

      {
        for (in_ch = 0; in_ch < inChs; in_ch++)

        {
          pInput = pBlkAlgoInfo->pInputs[in_ch].pSamples;

          if(in_ch==0)
          {
                    pOutput[sample] = pInput[sample];
          }
          else
          {
             pOutput[sample] += pInput[sample];

          }
        }
      }
    }
}
```