ClassWork5

- Consider the following case:
 - In input we have a stream of *k* matrices of size NxM. Let *S* be a vector representing an internal state having size Mx1.
 - For each input matrix A, the program computes
 - T = A*S (matrix vector product)
 - $s = sum T[i] \forall i$ (getting the sum of all elements, reduce operation)
 - $S[i] += s \forall i$ (updating the internal state with the result of the reduce)
 - At the end of the data stream, the result produced is s = sum S[i]
- Give a parallel implementation of the problem by using the FastFlow pipeline and ff_Map. The first stage of the pipeline produces the k matrices.