DataStream API

# 1.Create Execution Environment

(1) **StreamExecutionEnvironment.getExecutionEnvironment()**

The above code includes the following two functions:

**StreamExecutionEnvironment.createLocalEnvironment().**

**StreamExecutionEnvironment.createRemoteEnvironment().**

(2) Execution Mode

There are two kinds of execution modes: batch mode and stream mode. Use **ExecutionEnvironment.getExecutionEnvironment()** to start batch mode or use **StreamExecutionEnvironment.getExecutionEnvironment()** to start stream mode.

The two modes can be unified in new Flink: when running the program, type: **bin/flink run -Dexecution.runtime=BATCH** to start batch mode, if not, stream mode will be started.

Besides, it is also possible to change mode in our codes. After creating execution environment, just type: **env.setRuntimeMode(RuntimeExecutionMode.BATCH).**

# 2.Source Operators