# 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

Different operators can be used to read the input data stream. In Java program “event” and “sourcetest”, four basic methods are showed and tested, the first three of them belong to batch mode, while the last one is a basic stream mode.

# 3.Kafka

Flink often works with Kafka, which is a widely used for obtaining and sending data.