

```
>>> from pyspark.sql import SparkSession
>>> from pyspark.sql import functions as F
>>> spark = SparkSession \
...     .builder \
...     .appName("RateSourceApp") \
...     .getOrCreate()
>>> rate_df = spark \
...     .readStream \
...     .format("rate") \
...     .option("rowsPerSecond", 10) \
...     .load()
>>> rate_df.printSchema()
root
|-- timestamp: timestamp (nullable = true)
|-- value: long (nullable = true)

>>> rate_df.isStreaming
True
```

```
>>> rate_stream = rate_df \
...     .writeStream \
...     .format("console") \
...     .start()
>>> -----
```

Batch: 0

timestamp	value
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Batch: 1

timestamp	value
2021-09-13 19:58:...	0
2021-09-13 19:58:...	1
2021-09-13 19:58:...	2
2021-09-13 19:58:...	3
2021-09-13 19:58:...	4
2021-09-13 19:58:...	5
2021-09-13 19:58:...	6
2021-09-13 19:58:...	7
2021-09-13 19:58:...	8
2021-09-13 19:58:...	9

Batch: 2

timestamp	value
2021-09-13 19:58:...	10
2021-09-13 19:58:...	11
2021-09-13 19:58:...	12
2021-09-13 19:58:...	13
2021-09-13 19:58:...	14
2021-09-13 19:58:...	15

```
[student910_14@bigdataanalytics2-head-shdpt-v31-1-0 process_csv_as_stream]$ echo 1 >> 1.csv
[student910_14@bigdataanalytics2-head-shdpt-v31-1-0 process_csv_as_stream]$ ls
1.csv
[student910_14@bigdataanalytics2-head-shdpt-v31-1-0 process_csv_as_stream]$ cat 1.csv
1
[student910_14@bigdataanalytics2-head-shdpt-v31-1-0 process_csv_as_stream]$ echo 2 message >> 2.csv
[student910_14@bigdataanalytics2-head-shdpt-v31-1-0 process_csv_as_stream]$ █
```

```
>>> file_stream = file_df \
...     .writeStream \
...     .format("console") \
...     .trigger(processingTime="10 Seconds") \
...     .start()
>>> file_stream.isActive()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: 'bool' object is not callable
>>> file_stream.isActive
True
>>> file_stream.explain()
No physical plan. Waiting for data.
>>> █
```