Demonstrating the spark streaming

In [1]:
```
import sys
from pyspark import SparkContext
from pyspark.streaming import StreamingContext
import os
from datetime import datetime
now = datetime.now()
import time
ts = time.time()
```

Receiving - from spark streaming context - a simple word count program

In [2]:
```
if __name__ == "__main__":
    hostname = "localhost"
    port = int(9999)
    sc = SparkContext(appName="PythonStreamingNetworkWordCount")
    ssc = StreamingContext(sc, 10)
```

In [ ]:
```
lines = ssc.socketTextStream(hostname, port)
counts = lines.flatMap(lambda line: line.split(" "))\
              .map(lambda word: (word, 1))\
              .reduceByKey(lambda a, b: a+b)
counts.pprint()
ssc.start()
ssc.awaitTermination()
```

```
-------------------------------------------
Time: 2022-01-09 21:51:40
-------------------------------------------
('HELLO', 1)

-------------------------------------------
Time: 2022-01-09 21:51:50
-------------------------------------------

-------------------------------------------
Time: 2022-01-09 21:52:00
-------------------------------------------
('ARE', 1)
('HELLO', 1)
('SPARK', 2)
('HOW', 1)
('YOU', 1)

-------------------------------------------
Time: 2022-01-09 21:52:10
-------------------------------------------
('SPARK', 2)
('WELCOME', 1)
('HOME', 1)

-------------------------------------------
Time: 2022-01-09 21:52:20
-------------------------------------------

-------------------------------------------
Time: 2022-01-09 21:52:30
-------------------------------------------

-------------------------------------------
Time: 2022-01-09 21:52:40
-------------------------------------------

-------------------------------------------
Time: 2022-01-09 21:52:50
-------------------------------------------
('HADOOP', 1)
('SPARK', 2)
('JAVA', 1)
('PYTHON', 2)
('HOME', 5)

-------------------------------------------
Time: 2022-01-09 21:53:00
-------------------------------------------

-------------------------------------------
Time: 2022-01-09 21:53:10
-------------------------------------------

-------------------------------------------
Time: 2022-01-09 21:53:20
-------------------------------------------
('ARE', 1)
('IN', 1)
('TEAM', 1)
('FOUR', 1)
('GROUP', 1)
('MEMBERS', 2)
```

In [ ]:

In [ ]: