```
In [1]: #
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import sys
from random import random
from operator import add
from pyspark.sql import SparkSession
if __name__ == "__main__":
       Usage: pi [partitions]
    spark = SparkSession\
        .builder\
        .appName("PythonPi")\
        .getOrCreate()
    partitions = 2
    n = 100000 * partitions
    def f( ):
        x = random() * 2 - 1
        y = random() * 2 - 1
        return 1 if x ** 2 + y ** 2 <= 1 else 0
    count = spark.sparkContext.parallelize(range(1, n + 1), partitions).map(f)
.reduce(add)
    print("Pi is roughly %f" % (4.0 * count / n))
    spark.stop()
```

Pi is roughly 3.141280

```
In [ ]:
```