spark-pi.py

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```
[1]: # Name: Pritam shrestha
     # Assignment No: 1.1
     # Format: Pdf
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     # limitations under the License.
     import sys
     from random import random
     from operator import add
     from pyspark.sql import SparkSession
     if __name__ == "__main__":
         11 11 11
             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()</pre>
```

Pi is roughly 3.139140

[2]: # Thanks!!!