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LAB 7 : PYSPARK USING DATABRICKS

Install and import findspark

In [0]:

```
pip install findspark
```

Python interpreter will be restarted.

Requirement already satisfied: findspark in /local_disk0/.ephemeral_nfs/envs/pythonEnv-0397e3eb-0817-4771-91c5-df6926791321/lib/python3.8/site-packages (2.0.1)

Python interpreter will be restarted.

In [0]:

```
import findspark
```

Initialize findspark

In [0]:

```
from pyspark.sql import SparkSession
```

Create spark session and context

In [0]:

```
word = SparkSession.builder.master('local').appName('WordCount').getOrCreate()  
count = spark.sparkContext
```

Import word count text file

In [0]:

```
text = count.textFile("dbfs:/FileStore/shared_uploads/ds215229128@bhc.edu.in/Word_Count.txt")
```

Create flatmap for word count

In [0]:

```
check = text.flatMap(lambda line: line.split(" ")).map(lambda word: (word, 1)).reduceByKey()
```

In [0]:

```
output = check.collect()  
output
```

```
Out[6]: [('wonderful', 1),  
('possession', 1),  
('of', 8),  
('entire', 1),  
('soul,', 1),  
('like', 2),  
('these', 1),  
('sweet', 1),  
('mornings', 1),  
(',', 7),  
('am', 2),  
('alone,', 1),  
('feel', 2),  
('existence', 1),  
('in', 2),  
('this', 1),  
('spot,', 1),  
('was', 2),  
('created', 1),  
('souls', 1),  
('happy,', 1),  
('absorbed', 1),  
('existence,', 1),  
('neglect', 1),  
('incapable', 1),  
('drawing', 1),  
('single', 1),  
('at', 1),  
('moment;', 1),  
('yet', 1),  
('never', 1),  
('artist', 1),  
('than', 1),  
('now.', 1),  
('When,', 1),  
('lovely', 1),  
('valley', 1),  
('vapour', 1),  
('around', 1),  
('sun', 1),  
('strikes', 1),  
('impenetrable', 1),  
('but', 1),  
('stray', 1),  
('gleams', 1),  
('steal', 1),  
('into', 1),  
('sanctuary,', 1),  
('throw', 1),  
('myself', 1),  
('down', 1),  
('grass', 1),  
('trickling', 1),  
('stream;', 1),
```

```
('as', 1),  
('lie', 1),  
('close', 1),  
('A', 1),  
('serenity', 1),  
('has', 1),  
('taken', 1),  
('my', 5),  
('spring', 1),  
('which', 2),  
('I', 9),  
('enjoy', 1),  
('with', 2),  
('whole', 1),  
('heart.', 1),  
('and', 4),  
('the', 11),  
('charm', 1),  
('for', 1),  
('bliss', 1),  
('mine.', 1),  
('so', 2),  
('dear', 1),  
('friend,', 1),  
('exquisite', 1),  
('sense', 1),  
('mere', 1),  
('tranquil', 1),  
('that', 2),  
('talents.', 1),  
('should', 1),  
('be', 1),  
('a', 3),  
('stroke', 1),  
('present', 1),  
('greater', 1),  
('while', 1),  
('teems', 1),  
('me,', 1),  
('meridian', 1),  
('upper', 1),  
('surface', 1),  
('foliage', 1),  
('trees,', 1),  
('few', 1),  
('inner', 1),  
('among', 1),  
('tall', 1),  
('by', 1),  
('and,', 1),  
('to', 1)]
```