```
# Name : Adwait Purao
# UID : 2021300101
# Batch : B
# Class : Comps B
!pip install pyspark
           Collecting pyspark
               Downloading pyspark-3.5.1.tar.gz (317.0 MB)
                                                                                                                 - 317.0/317.0 MB 2.4 MB/s eta 0:00:00
                Preparing metadata (setup.py) ... done
           Requirement already satisfied: py4j==0.10.9.7 in /usr/local/lib/python3.10/dist-packages (from pyspark) (0.10.9.7)
           Building wheels for collected packages: pyspark
                Building wheel for pyspark (setup.py) ... done
                \label{lem:created_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_c
                Stored in directory: /root/.cache/pip/wheels/80/1d/60/2c256ed38dddce2fdd93be545214a63e02fbd8d74fb0b7f3a6
           Successfully built pyspark
           Installing collected packages: pyspark
           Successfully installed pyspark-3.5.1
from pyspark.sql import SparkSession
# Create SparkSession
spark = SparkSession.builder.master("local").appName('WordCount').getOrCreate()
# Get the SparkContext
sc = spark.sparkContext
# Read the text file
text_file = sc.textFile("/content/BDA_10_Text_Input.txt")
# Perform word count
word_counts = text_file.flatMap(lambda line: line.split(" ")) \
                                                  .map(lambda word: (word, 1)) \
                                                  .reduceByKey(lambda x, y: x + y)
# Display word counts
for word, count in word_counts.collect():
         print(f"{word}: {count}")
           In: 2
           the: 29
           heart: 1
           of: 20
           bustling: 1
           city,: 1
           where: 4
           neon: 1
           lights: 2
           flicker: 1
           and: 13
           sounds: 1
           traffic: 1
           never: 1
           cease,: 1
           there: 2
           lies: 1
           a: 10
           quaint: 1
           little: 1
           cafe.: 1
           This: 1
           cafe,: 2
           with: 3
           its: 1
           cozy: 1
           atmosphere: 1
           aromatic: 1
           brews,: 1
           is: 2
           favorite: 2
           haunt: 1
```

for: 2 locals: 1 tourists: 1 alike.: 1 : 6 Every: 1 morning,: 1 aroma: 1 freshly: 1 ground: 1 coffee: 2 fills: 1 air: 1 as: 5 customers: 2 trickle: 1 in,: 1 seeking: 1 refuge: 1 from: 1 chaos: 1 outside: 1 world.: 1 The: 1 barista,: 1 smile: 1