## 

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(https://databricks.com)
  from pyspark import SparkContext
  # Create a SparkContext
  sc = SparkContext("local", "RDD Exploration")
  ValueError: Cannot run multiple SparkContexts at once; existing SparkContext(app=Databricks Shell, master=local[8]) created by __init__ at /dat
abricks/python_shell/dbruntime/spark_connection.py:127
  # Create an RDD from a list
  data = [1, 2, 3, 4, 5]
  rdd = sc.parallelize(data)
  # Perform some basic operations on the RDD
  # 1. Count the number of elements
  count = rdd.count()
  print("Number of elements:", count)
Number of elements: 5
  # 2. Sum all elements
  total sum = rdd.sum()
  print("Sum of all elements:", total_sum)
Sum of all elements: 15
  # 3. Calculate the mean
  mean = total_sum / count
  print("Mean of elements:", mean)
Mean of elements: 3.0
  # 4. Find the maximum and minimum elements
  max_element = rdd.max()
  min_element = rdd.min()
  print("Maximum element:", max_element)
  print("Minimum element:", min_element)
Maximum element: 5
Minimum element: 1
  \# 5. Filter elements greater than 3
  filtered_rdd = rdd.filter(lambda x: x > 3)
  print("Elements greater than 3:", filtered_rdd.collect())
Elements greater than 3: [4, 5]
  # 6. Map operation to square each element
  squared_rdd = rdd.map(lambda x: x*x)
  print("Squared elements:", squared_rdd.collect())
Squared elements: [1, 4, 9, 16, 25]
Sum of elements using reduce: 15
```