Assignment-11

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SparkSession

Creating a SparkSession instance would be the first statement you would write to the program with <u>RDD</u>, <u>DataFrame</u> and Dataset. SparkSession will be created using SparkSession.builder() builder pattern.

RDD creation(Resilient Distributed Datasets)

- Two ways to create RDD-sparkContext.parallelize()
 - sparkContext.textFile()

sparkContext.parallelize()

sparkContext.textFile()

```
print(rdd2.collect())
   ['one 1', 'eleven 11']
Spark.read.csv
   import pyspark
   [3]:
   from pyspark.sql import SparkSession
   [4]:
   spark=SparkSession.builder.appName("Pyspark").getOrCreate()
   Setting default log level to "WARN".
   To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLevel(ne
   wLevel).
   24/02/05 15:07:14 WARN NativeCodeLoader: Unable to load native-hadoop library for yo
   ur platform... using builtin-java classes where applicable
   [5]:
   spark
   [5]:
  SparkSession - in-memory
  SparkContext
  Spark UI
                 v3.5.0
  Version
                   local[*]
  Master
  AppName
                  Pyspark
   [6]:
   df=spark.read.csv("/Users/ajaychaudhary/Downloads/Marks_data.csv")
   df
   [6]:
   DataFrame[_c0: string, _c1: string, _c2: string, _c3: string]
```

rdd2 = spark.sparkContext.textFile("/Users/ajaychaudhary/Downloads/test.txt")

[16]:

```
df.show()
| _c0|
            _c1|
                       _c2|_c3|
|Name|M1 Score|M2 Score|age|
                        80 | 20 |
|Alex|
             62|
|Brad|
              45 |
                        56 | 19 |
                        98 | 21 |
|Joey|
              85 |
|NULL|
              54|
                        79 | 20 |
|abhi|
           NULL
                      NULL | 20 |
[4.41.
```

I have run the same commands for creating a rdd on databricks -

