Spark Lab Assessment

- Q.1. Perform the following transformation operations on RDD
 - Distinct
 - Filter

Answer 1

Note: I have completed this Lab Assessment using Jupyter Notebook

Spark Lab Assessment by Mr. Harshit Dawar!

Creating RDD from Parallelizing Collection!

```
In [13]:
              rdd type 1 = sc.parallelize([("Machine Learning", 100),
           1
                                          ("Deep Learning", 100),
           2
           3
                                          ("Data Science", 100),
           4
                                          ("Big Data", 100),
           5
                                          ("DevOps", 100),
           6
                                      ("Machine Learning", 100),
           7
                                          ("Deep Learning", 100),
                                          ("Data Science", 100),
           8
                                          ("Big Data", 100),
           9
                                          ("DevOps", 100)]
          10
          11
                                     )
```

Applying Distinct function on rdd created from parallelizing the collection!

Applying Filter function on rdd created from parallelizing the collection!

Creating RDD from the external dataset (loaded from hdfs)!

```
In [20]: 1 rdd_type_2 = spark.read.csv("2010-12-01.csv").rdd
```

Applying Distinct function on rdd created from external dataset!

```
In [37]: 1 rdd_type_2.distinct().count()
Out[37]: 3065
```

Applying Filter function on rdd created from external dataset!

('D', ('Data Science', 100)), ('B', ('Big Data', 100)), ('D', ('DevOps', 100))]

Applying Distinct function on rdd created from existing RDD!

Applying Filter function on rdd created from existing RDD!

Lab Work Completed!

Made By: Mr. Harshit Dawar Roll Number: R172217022

Branch: Big Data

Batch: B1

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Subject: In Memory Processing Lab Submitted To: Ms. Shweta Mongia