Accumulators and Broadcast variable Assignment –

1. Consider the array { 10,20,30,40,50} . Display contents of this array using the broadcast variable.
2. Consider the array { 20,25,30,35,40} . Display sum of this array using the accumulator.

Solution -

object SparkLearn {  
 def main(args: Array[String]): Unit = {  
 //Spark Session  
 val spark = SparkSession.*builder*().master("local[\*]").appName("Learn Spark").getOrCreate()  
  
 //Spark Context  
 val sc = spark.sparkContext  
  
 //Create a broadcast variable  
 val brodcastVal = sc.broadcast(*Array*(10,20,30,40,50))  
 //Display the results for the broadcast variable  
 brodcastVal.value.foreach(*println*)  
  
 //Create sum accumulator  
 val sumAccumulator = sc.longAccumulator("sumAcc")  
  
 //Create a RDD  
 val rdd = sc.parallelize(*Array*(20,25,30,35,40))  
 rdd.foreach(x => sumAccumulator.add(x))  
  
 //Print the sum for that accumulator  
 *println*(sumAccumulator.value)  
  
  
 }  
}