**Session 16: INTRODUCTION TO APACHE SPARK**

**Assignment 16.1**

**Problem Statement**

Given a list of numbers - List[Int] (1, 2, 3, 4, 5, 6, 7, 8, 9, 10)

1. find the sum of all numbers
2. find the total elements in the list
3. calculate the average of the numbers in the list
4. find the sum of all the even numbers in the list
5. find the total number of elements in the list divisible by both 5 and 3.

Task1 - Find the sum of all numbers

RDD,

***val nums = sc.parallelize(List(1, 2, 3, 4, 5, 6, 7, 8, 9, 10))***



***val sum=nums.sum()***

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Task2 - find the total elements in the list

***val count = nums.count()***

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Task3 - calculate the average of the numbers in the list

***val average=nums.mean()***

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Task4 - find the sum of all the even numbers in the list

***val even=nums.filter(i=>(i%2==0))***

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***val sum\_even=even.sum()***

****

Task5 - find the total number of elements in the list divisible by both 5 and 3.

***val divisible = nums.filter(i=>(i%3==0) || (i%5==0))***

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***divisible.collect()***

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***divisible.foreach(println)***

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