

# Assignment 45.1 Task1

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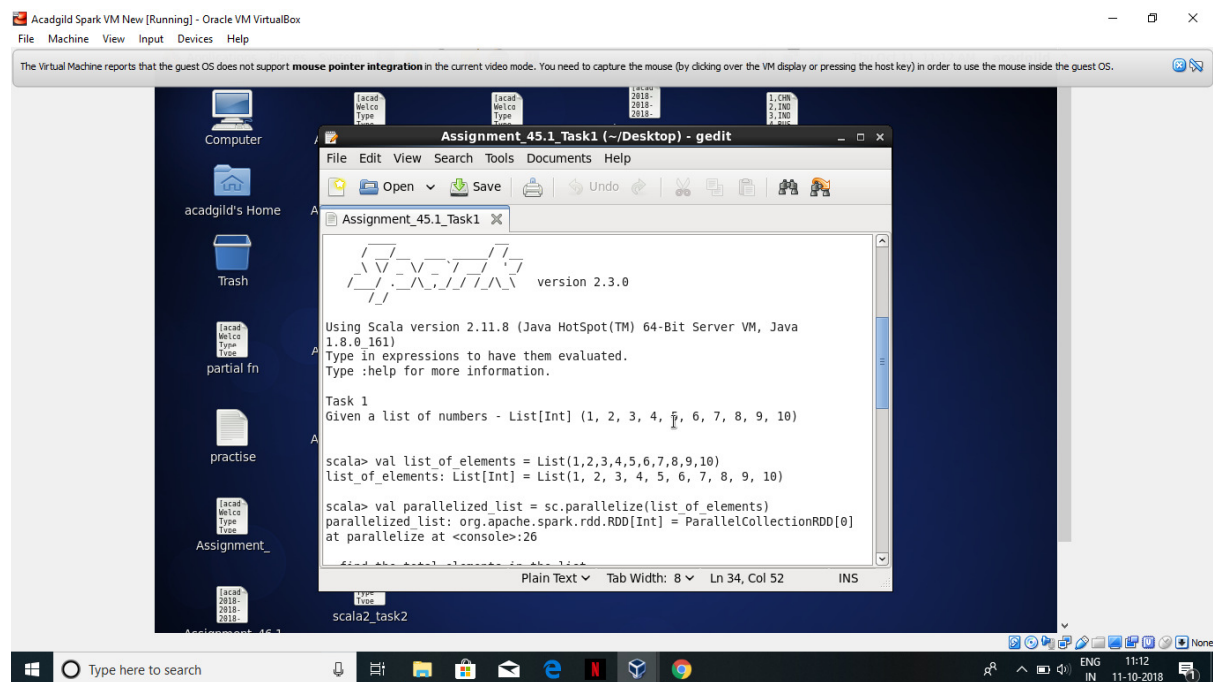
Course : Big Data & Spark

## Task 1

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

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

Create the list of numbers:



- find the sum of all numbers

```
scala> parallelized_list.sum
res1: Double = 55.0
```

- find the total elements in the list

```
scala> parallelized_list.count  
res0: Long =  
10
```

- calculate the average of the numbers in the list

```
scala> parallelized_list.sum/parallelized_list.count  
count    countApprox    countApproxDistinct    countAsync    countByValue  
countByValueApprox
```

```
scala> parallelized_list.sum/parallelized_list.count  
res2: Double = 5.5
```

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

```
scala> parallelized_list.filter(i => (i%2==0))  
res3: org.apache.spark.rdd.RDD[Int] = MapPartitionsRDD[3] at filter at  
<console>:26
```

```
scala> parallelized_list.filter(i => (i%2==0)).sum  
res4: Double = 30.0
```

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

```
scala> parallelized_list.filter(i => (i%5==0)&(i%3==0)).count  
res5: Long = 0
```