**ASSIGNMENT-16.1**

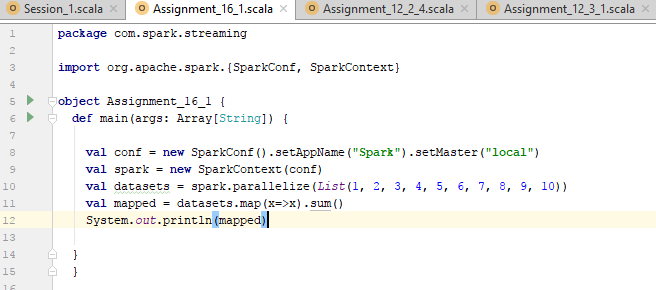
1. Given a list of numbers - List[Int] (1, 2, 3, 4, 5, 6, 7, 8, 9, 10)

- find the sum of all numbers

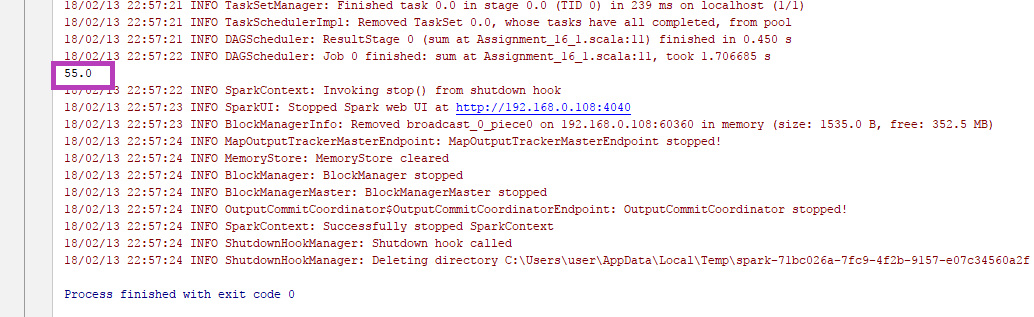
Spark to be run in local needs to have **setMaster** value set and that needs to be set to *local* for local runs. In the below screenshot,

* The List of integer input values are taken as input using parallelize.
* Iterate the list using *map* and sum it using *sum()*

**PROGRAM:**



**RESULT:**

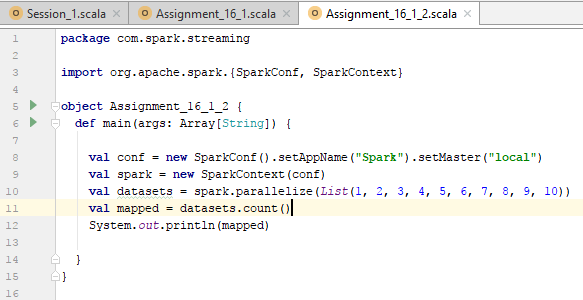
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Solution is: 55.0

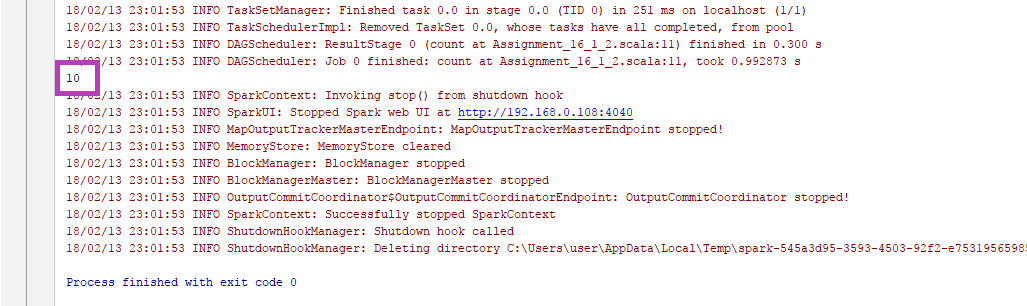
- find the total elements in the list

* Total elements are calculated using count

**PROGRAM:**

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**RESULT:**

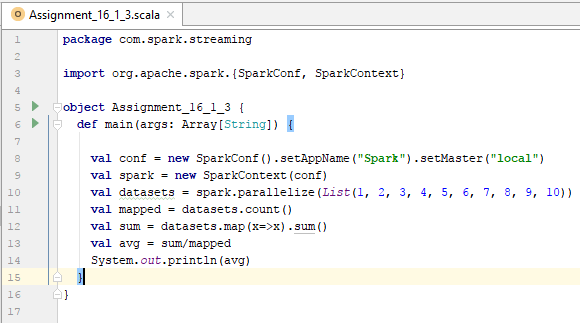
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Solution is : 10

- calculate the average of the numbers in the list

* Sum is calculated using sum()
* Count is calculated using count and stored in variables
* The average is calculated by doing sum/count operation.

**PROGRAM:**



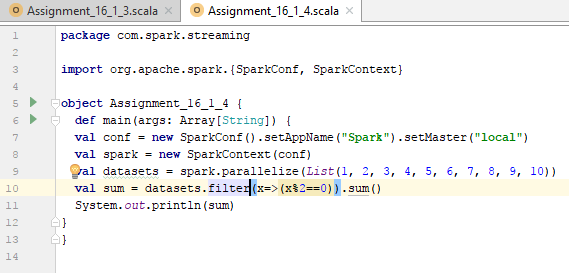
**RESULT:**

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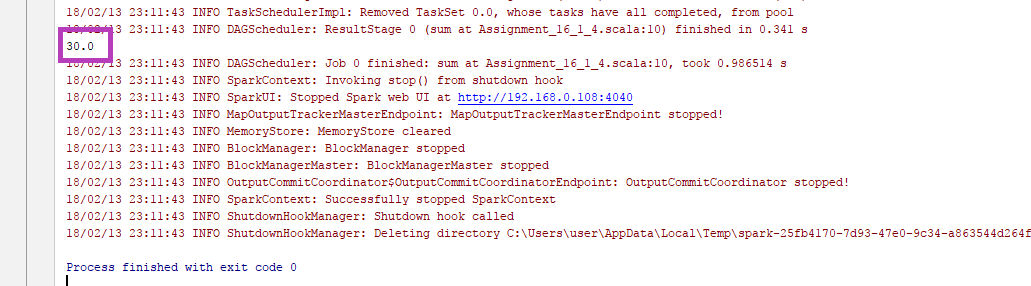
Solution is : 5.5

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

**PROGRAM:**

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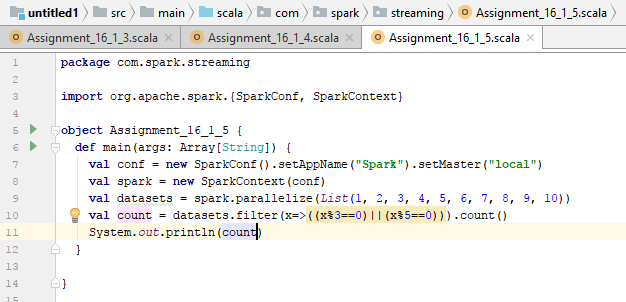
**RESULT:**

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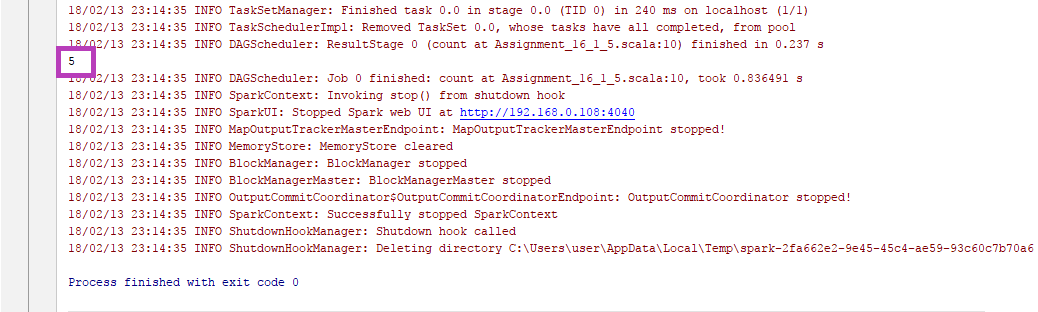
Solution is : 30

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

**PROGRAM:**

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**RESULT:**

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Solution is: 5