#### Session 24:

### **SPARK STREAMING**

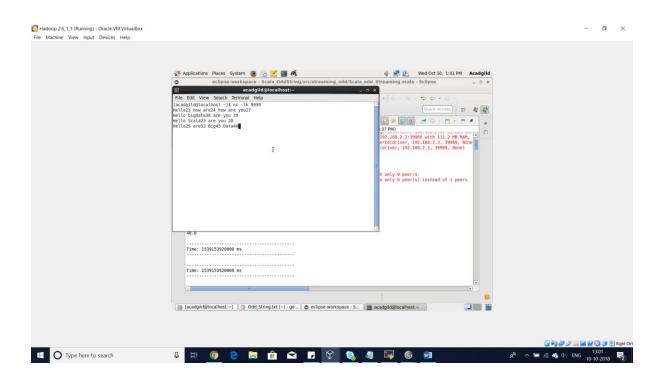
# Assignment 1

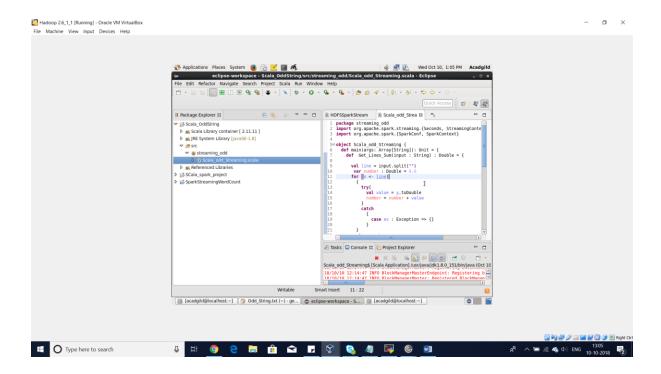
## Task 1

Read a stream of Strings, fetch the words which can be converted to numbers. Filter out the rows, where the sum of numbers in that line is odd.

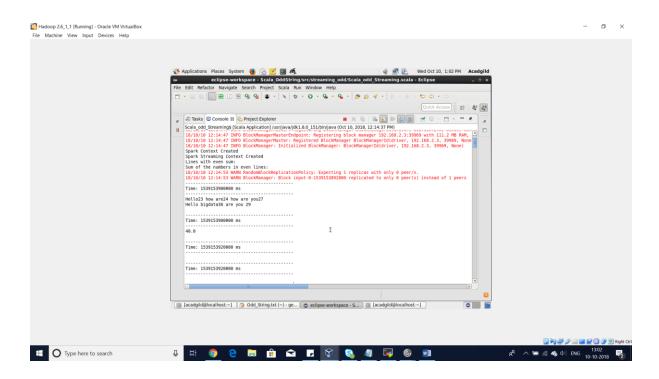
Provide the sum of all the remaining numbers in that batch.

Output: – Before running the application, start "netcat" in terminal using the command "nc -lk 9999" – Run the spark application – Put some string with numbers on the shell as shown below





Given below screenshot – we are able to see that lines containing sum of odd numbers are filter, even number is displayed, and sum of the number is displayed in the next line.

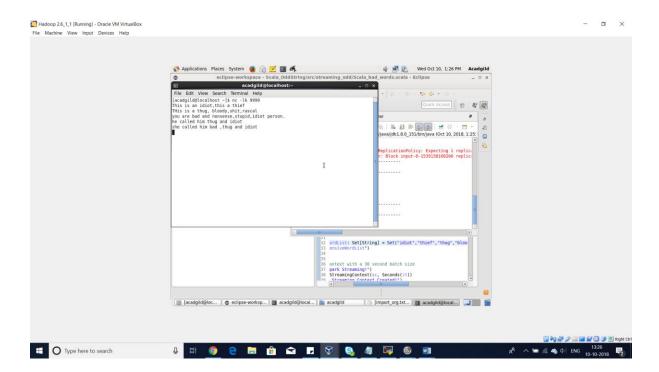


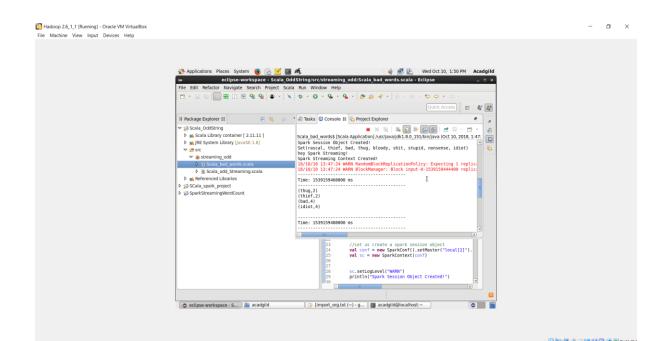
Task 2: Read two streams 1. List of strings input by user 2. Real-time set of offensive words Find the word count of the offensive words inputted by the user as per the realtime set of offensive words Solution: Note: Source code file is provided along with this assignment report.

### Solution:

In the spark application, we have a set of words that we considered as offensive words "idiot", "fool", "bad", "nonsense", "shit", "damn", "stupid", "dash", "bloody", "rascal",thief,thug

In screenshot below, we are able to see that spark application has counted the number of offensive words occur as per the input string provided by the user.





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