Assignment 2: MapReduce on Spark

Name: Waghe Shubham Yatindra

Roll No.: **13MF3IM17**

Question 2: A2Q2:

• Map function:

Input format <number>

Output format : Key : <number>, Value <1>

• Reduce Function:

- Input format <k, val1>,<k,val2>
- Output format : Key : <k, val1+val2>
 - SortByKey on this output

• Percentile:

- Calculate the index of the 25th percentile, 50th percentile and 75th percentile
- Calculate Nth percentile* 0.01 * totalCount index by adding the count in loop and breaking out when the required breakPoint is achieved
- If the division is integer and the count ends exactly at breakPoint then,
 Percentile = (current number + next number)/2