BIG DATA ANALYSIS

Hadoop MapReduce for Climate
Data Analytics

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Task 1

(a) What will the output pairs for map phase look like?

- (b) What will be the types of keys and values of the input and output pairs in the Map phase?
 - Input key: Integer or IntWritable
 - Input Value : String (sentence) or Text
- · Output key: String (single word) or Text
- · Input Value: Integer or IntWritable
- (c) What will the input pairs for reduce phase look like?

- (d) What will be the types of keys and values of the input and output pairs in the Reduce phase?
 - · Input key: String (single word) or Text

- Output key: String (single word) or Text
- Input Value: list/array of Integers or Iterable<IntWritable>
- Input Value: Integer or IntWritable
- (e) Write map () function for Questions a and b.

(f) Write reduce () function for Questions c and d.