For a given Text file, Create a Map Reduce program to sort the content in an alphabetic order listing only top 10 maximum occurrences of words.

```
se-HP-Elite-Tower-600-G9-Desktop-PC:~$ jps
 12082 NameNode
 19238 Jps
 13014 NodeManager
 15100 org.eclipse.equinox.launcher_1.6.1000.v20250227-1734.jar
 12845 ResourceManager
 12557 SecondaryNameNode
 12255 DataNode
                      mscecse-HP-Elite-Tower-600-G9-Desktop-PC:~$ hdfs dfs -copyFromLocal /home/hadoop/Desktop/TopN.txt /bda
 copyFromLocal: `/bda_haoop/tinput.txt': No such file or directory: `hdfs://localhost:9000/bda_haoop/tinput.txt'
hadoop@bmscecse-HP-Elite-Tower-600-G9-Desktop-PC:~$ hdfs dfs -copyFromLocal /home/hadoop/Desktop/TopN.txt /bda_
 hadoop/tinput.txt
                  abmscecse-HP-Elite-Tower-600-G9-Desktop-PC:-$ hadoop jar /home/hadoop/Desktop/TopN.jar TopN.TNDriver /bda
hadoop/tinput.txt /bda_hadoop/toutput

2025-05-26 14:59:03,334 INFO impl.MetricsConfig: Loaded properties from hadoop-metrics2.properties

2025-05-26 14:59:03,372 INFO impl.MetricsSystemImpl: Scheduled Metric snapshot period at 10 second(s).

2025-05-26 14:59:03,372 INFO impl.MetricsSystemImpl: JobTracker metrics system started

2025-05-26 14:59:03,372 INFO impl.MetricsSystemImpl: JobTracker metrics system started
2025-05-26 14:59:03,426 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. I mplement the Tool interface and execute your application with ToolRunner to remedy this. 2025-05-26 14:59:03,472 INFO input.FileInputFormat: Total input files to process: 1 2025-05-26 14:59:03,497 INFO mapreduce.JobSubmitter: number of splits:1 2025-05-26 14:59:03,554 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_local1824101299_0001 2025-05-26 14:59:03,554 INFO mapreduce.JobSubmitter: Executing with tokens: [] 2025-05-26 14:59:03,609 INFO mapreduce.Job: The url to track the job: http://localhost:8080/ 2025-05-26 14:59:03,610 INFO mapreduce.Job: Running job: job_local1824101299_0001 2025-05-26 14:59:03,610 INFO mapreduce.JobsRunner: OutputCommitter set in config null 2025-05-26 14:59:03,614 INFO output.PathOutputCommitterFactory: No output committer factory defined, defaulting to FileOutputCommitterFactory
 2025-05-26 14:59:03,614 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2
2025-05-26 14:59:03,614 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup _temporary folders un
 der output directory:false, ignore cleanup failures: false
2025-05-26 14:59:03,614 INFO mapred.LocalJobRunner: OutputCommitter is org.apache.hadoop.mapreduce.lib.output.F
 ileOutputCommitter
2025-05-26 14:59:03,654 INFO mapred.LocalJobRunner: Waiting for map tasks
2025-05-26 14:59:03,655 INFO mapred.LocalJobRunner: Starting task: attempt_local1824101299_0001_m_000000_0
2025-05-26 14:59:03,664 INFO output.PathOutputCommitterFactory: No output committer factory defined, defaulting
   to FileOutputCommitterFactory
 2025-05-26 14:59:03,664 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2
2025-05-26 14:59:03,664 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup _temporary folders un
der output directory:false, ignore cleanup failures: false
2025-05-26 14:59:03,670 INFO mapred.Task: Using ResourceCalculatorProcessTree : [ ]
2025-05-26 14:59:03,672 INFO mapred.MapTask: Processing split: hdfs://localhost:9000/bda_hadoop/tinput.txt:0+95
2025-05-26 14:59:03,701 INFO mapred.MapTask: (EQUATOR) 0 kvi 26214396(104857584)
2025-05-26 14:59:03,701 INFO mapred.MapTask: mapreduce.task.io.sort.mb: 100
2025-05-26 14:59:03,701 INFO mapred.MapTask: soft limit at 83886080
2025-05-26 14:59:03,701 INFO mapred.MapTask: Napreduce.Lask:Ro.Sol (1906)
2025-05-26 14:59:03,701 INFO mapred.MapTask: soft limit at 83886080
2025-05-26 14:59:03,701 INFO mapred.MapTask: bufstart = 0; bufvoid = 104857600
2025-05-26 14:59:03,701 INFO mapred.MapTask: kvstart = 26214396; length = 6553600
2025-05-26 14:59:03,702 INFO mapred.MapTask: Map output collector class = org.apache.hadoop.mapred.MapTask;MapO
 utputBuffer
 2025-05-26 14:59:03,738 INFO mapred.LocalJobRunner:
2025-05-26 14:59:03,739 INFO mapred.MapTask: Starting flush of map output
```

```
File System Counters
                                    stem Counters
FILE: Number of bytes read=10682
FILE: Number of bytes written=1291808
FILE: Number of read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=190
HDFS: Number of bytes written=40
HDFS: Number of read operations=15
                                    HDFS: Number of bytes witten=40
HDFS: Number of read operations=15
HDFS: Number of large read operations=0
HDFS: Number of write operations=4
HDFS: Number of bytes read erasure-coded=0
                  Map-Reduce Framework
                                   Map input records=3
Map output records=15
Map output bytes=154
Map output materialized bytes=190
                                     Input split bytes=108
                                     Combine input records=0
                                     Combine output records=0
                                    Combine output records=0
Reduce input groups=5
Reduce shuffle bytes=190
Reduce input records=15
Reduce output records=5
                                    Reduce output records=5
Spilled Records=30
Shuffled Maps =1
Failed Shuffles=0
Merged Map outputs=1
GC time elapsed (ms)=0
Total committed heap usage (bytes)=1052770304
                  Shuffle Errors
                                     BAD_ID=0
                                     CONNECTION=0
                                     IO_ERROR=0
                 WRONG_LENOTH=0
WRONG_MAP=0
WRONG_REDUCE=0
File Input Format Counters
                                    Bytes Read=95
                  File Output Format Counters
 Bytes Written=40
hadoop@bmscecse-HP-Elite-Tower-600-G9-Desktop-PC:~$ hdfs dfs -ls /bda_hadoop/toutput
Found 2 items
 -rw-r--- 1 hadoop supergroup 0 2025-05-26 14:59 /bda_hadoop/toutput/_SUCCESS
-rw-r---- 1 hadoop supergroup 40 2025-05-26 14:59 /bda_hadoop/toutput/part-r-00000
hadoop@bmscecse-HP-Elite-Tower-600-G9-Desktop-PC:-$ hdfs dfs -cat /bda_hadoop/toutput/part-r-00000
 banana 5
apple
fruit
mango
kiwi
    adoop@bmscecse-HP-Elite-Tower-600-G9-Desktop-PC:~$
```