

Date : 23-08-2022

Explanation :

Here i have provided the **key as 69**.

```
import javax.crypto.Cipher;
import javax.crypto.KeyGenerator;
import javax.crypto.SecretKey;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.LongWritable;
import org.apache.hadoop.mapreduce.Mapper;
import org.apache.hadoop.mapreduce.Mapper;
import org.apache.hadoop.mapreduce.Job;
import org.apache.hadoop.mapreduce.Mapper.Context;
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;
import org.apache.hadoop.util.GenericOptionsParser;

public class email {
    public static class emailencrypt extends Mapper<LongWritable,Text,Text,Text>
    {
        public void map(LongWritable key,Text value,Context con)
        throws IOException,InterruptedException
        {
            String strIncremented=new String();

            String x = "";
            String line = value.toString();
            for(int i=0;i<line.length();i++)
            {
                strIncremented+=(char)(line.charAt(i)+69);
            }
            con.write(new Text(x),new Text(strIncremented));
        }
    }

    //end map
    public static void main(String[] args) throws Exception{
```

```

Job job=new Job();
job.setJarByClass(email.class);
    job.setJobName("email");
    FileInputFormat.setInputPaths(job,new Path(args[0]));
    FileOutputFormat.setOutputPath(job,new Path(args[1]));
    job.setMapperClass(emailencrypt.class);
    job.setOutputKeyClass(Text.class);
    job.setOutputValueClass(Text.class);
    boolean success=job.waitForCompletion(true);
    System.exit(success?0:1);    }}

```

```

[training@localhost ~]$ hadoop jar /home/training/emailencry.jar /user/training/vaibhav/email /user/training/emailoutput
22/08/23 11:14:33 WARN mapred.JobClient: Use GenericOptionsParser for parsing the arguments. Applications should implement Tool for
the same.
22/08/23 11:14:33 INFO input.FileInputFormat: Total input paths to process : 1
22/08/23 11:14:33 WARN snappy.LoadSnappy: Snappy native library is available
22/08/23 11:14:33 INFO snappy.LoadSnappy: Snappy native library loaded
22/08/23 11:14:33 INFO mapred.JobClient: Running job: job_202208011504_0006
22/08/23 11:14:34 INFO mapred.JobClient: map 0% reduce 0%
22/08/23 11:14:38 INFO mapred.JobClient: map 100% reduce 0%
22/08/23 11:14:40 INFO mapred.JobClient: map 100% reduce 100%
22/08/23 11:14:40 INFO mapred.JobClient: Job complete: job_202208011504_0006
22/08/23 11:14:40 INFO mapred.JobClient: Counters: 32
22/08/23 11:14:40 INFO mapred.JobClient:   File System Counters
22/08/23 11:14:40 INFO mapred.JobClient:       FILE: Number of bytes read=398
22/08/23 11:14:40 INFO mapred.JobClient:       FILE: Number of bytes written=361496
22/08/23 11:14:40 INFO mapred.JobClient:       FILE: Number of read operations=0
22/08/23 11:14:40 INFO mapred.JobClient:       FILE: Number of large read operations=0
22/08/23 11:14:40 INFO mapred.JobClient:       FILE: Number of write operations=0
22/08/23 11:14:40 INFO mapred.JobClient:       HDFS: Number of bytes read=305
22/08/23 11:14:40 INFO mapred.JobClient:       HDFS: Number of bytes written=370
22/08/23 11:14:40 INFO mapred.JobClient:       HDFS: Number of read operations=2
22/08/23 11:14:40 INFO mapred.JobClient:       HDFS: Number of large read operations=0
22/08/23 11:14:40 INFO mapred.JobClient:       HDFS: Number of write operations=1
22/08/23 11:14:40 INFO mapred.JobClient:   Job Counters
22/08/23 11:14:40 INFO mapred.JobClient:       Launched map tasks=1
22/08/23 11:14:40 INFO mapred.JobClient:       Launched reduce tasks=1
22/08/23 11:14:40 INFO mapred.JobClient:       Data-local map tasks=1
22/08/23 11:14:40 INFO mapred.JobClient:       Total time spent by all maps in occupied slots (ms)=3540
22/08/23 11:14:40 INFO mapred.JobClient:       Total time spent by all reduces in occupied slots (ms)=2218
22/08/23 11:14:40 INFO mapred.JobClient:       Total time spent by all maps waiting after reserving slots (ms)=0

```

Input File :

```

*email X
vk@somaiya.edu
sk@gmail.com
vk3015@gmail.com
vaibhav.kumar@gmail.com
shirley@somaiya.edu
priya@somaiya.edu
mam@somaiya.edu
bigdata@somaiya.edu
gk@somaiya.edu
ss@somaiya.edu
rmaeshS@somaiya.edu

```

OUTPUT:

File: [/user/training/emailoutput/part-r-00000](#)

Goto :

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```