Step by step Hadoop 2.8.0 installation on Window 8/10
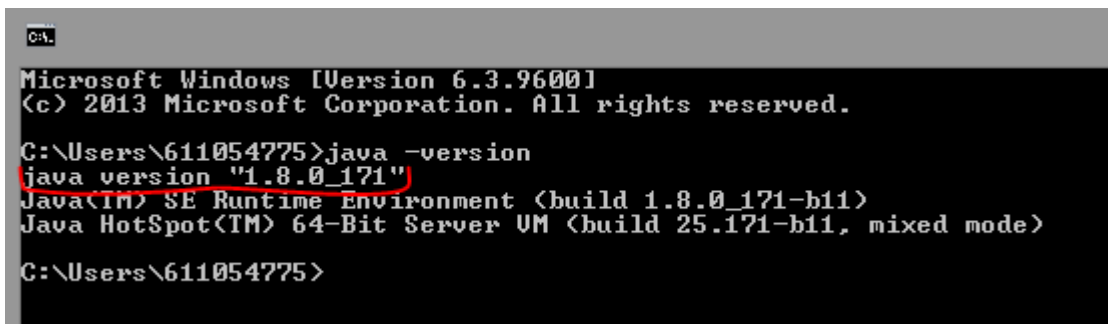
Prepare:

These software's should be prepared to install Hadoop 2.8.0 on window 8/10 64bit

1. Download Hadoop 2.8.0 (Link: http://www-eu.apache.org/dist/hadoop/common/hadoop-2.8.0/hadoop-2.8.0.tar.gz OR http://archive.apache.org/dist/hadoop/core//hadoop-2.8.0/hadoop-2.8.0.tar.gz)
2. Java JDK 1.8.0.zip
    (Link: http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html)

Set up

1. Check either Java 1.8.0 is already installed on your system or not, use **"Javac -version"** to check.
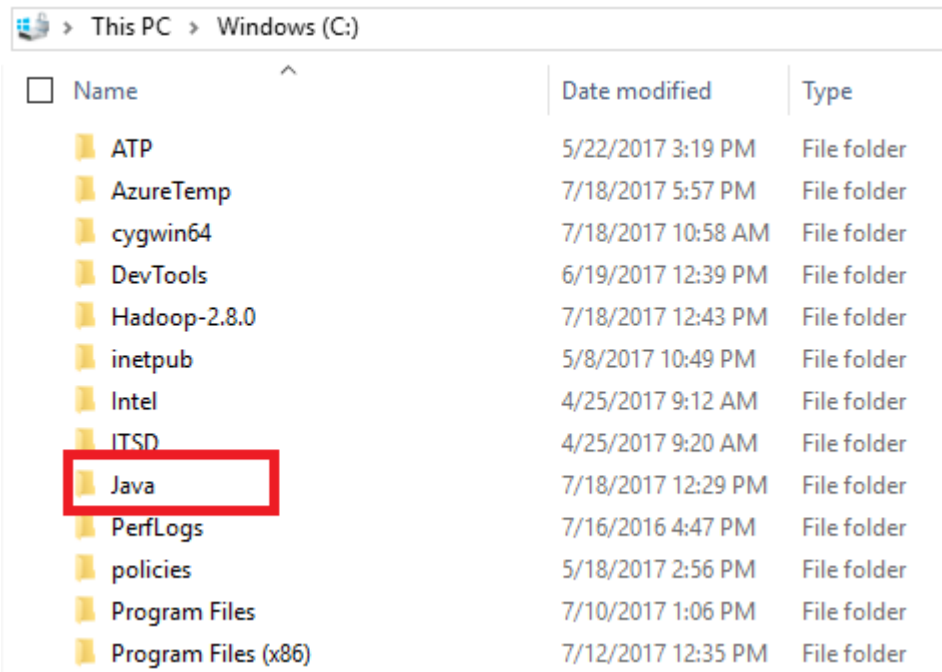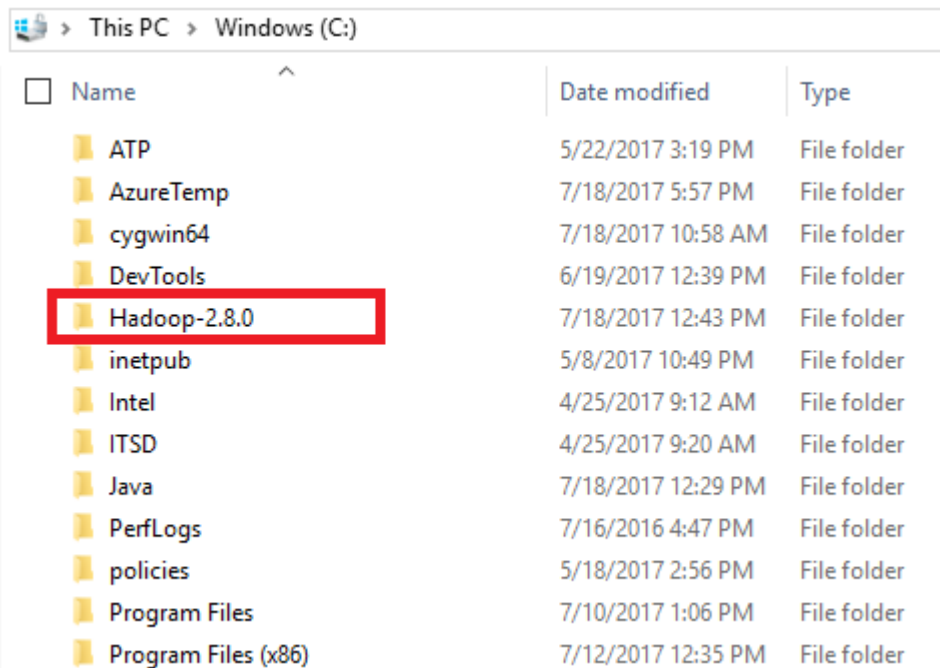
2. If Java is not installed on your system then first install java under **"C:\JAVA"**

3. Extract file Hadoop 2.8.0.tar.gz or Hadoop-2.8.0.zip and place under **"C:\Hadoop-**

2.8.0".

4. Set the path HADOOP_HOME Environment variable on windows 10(see Step 1,2,3 and 4
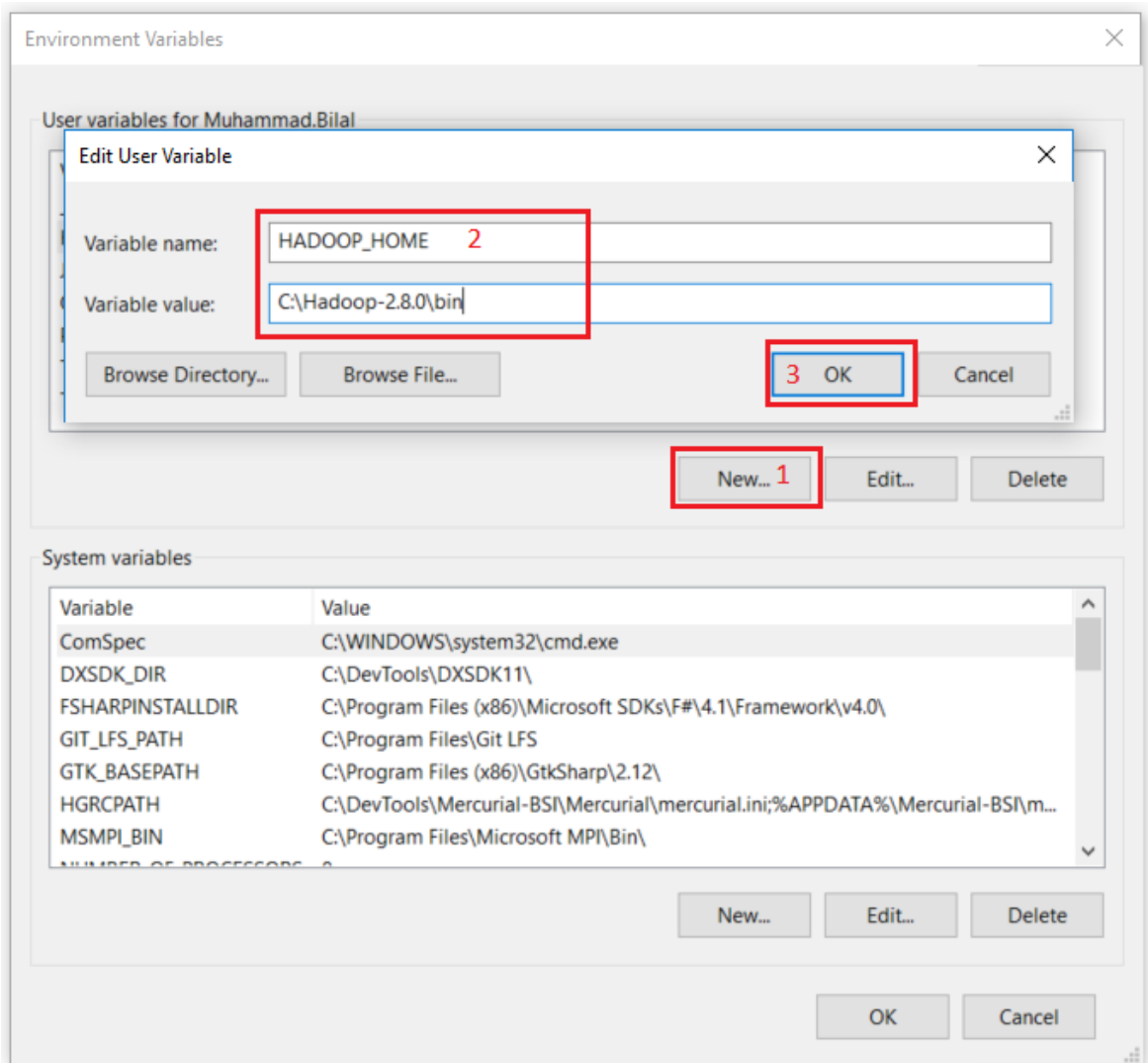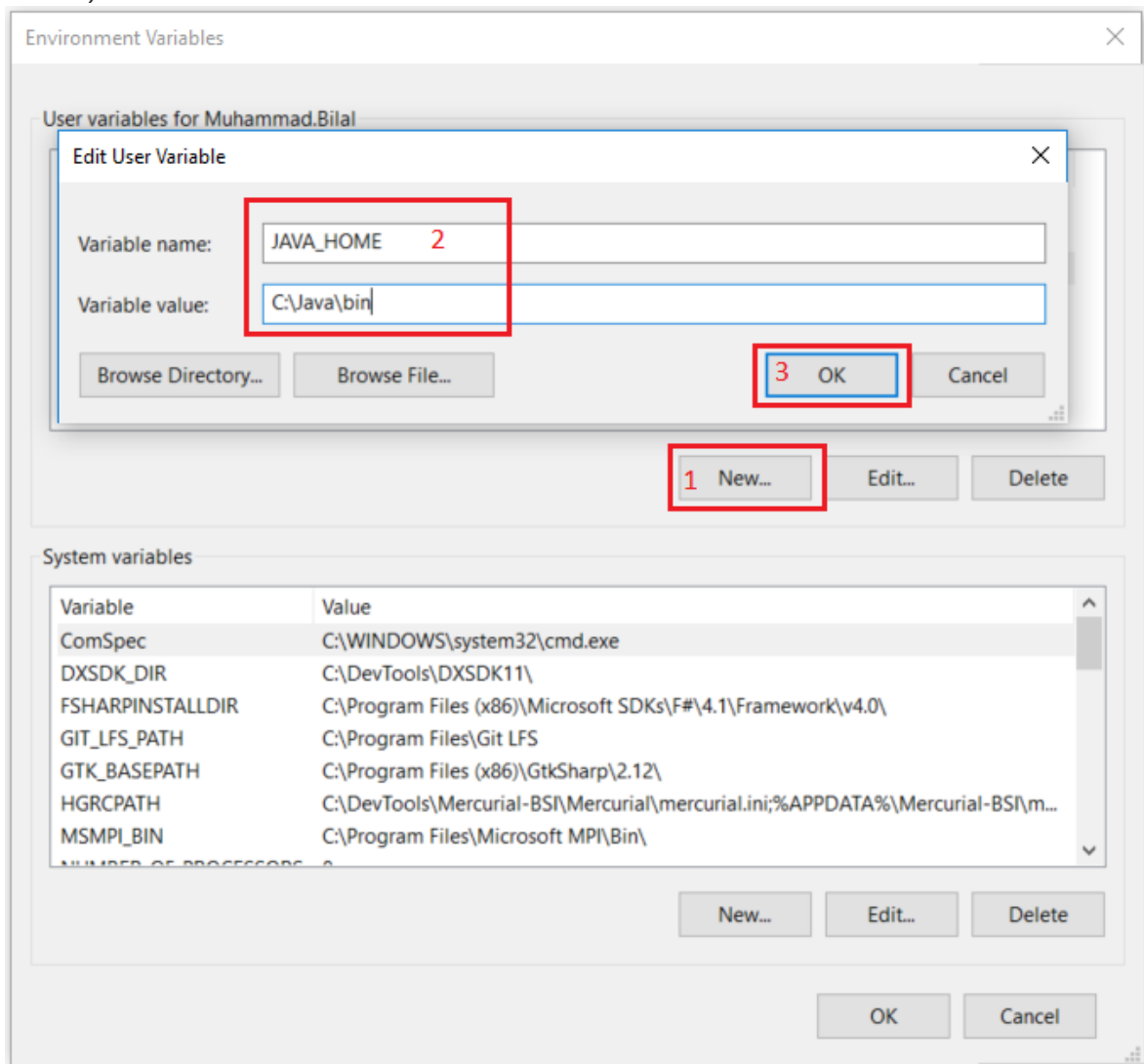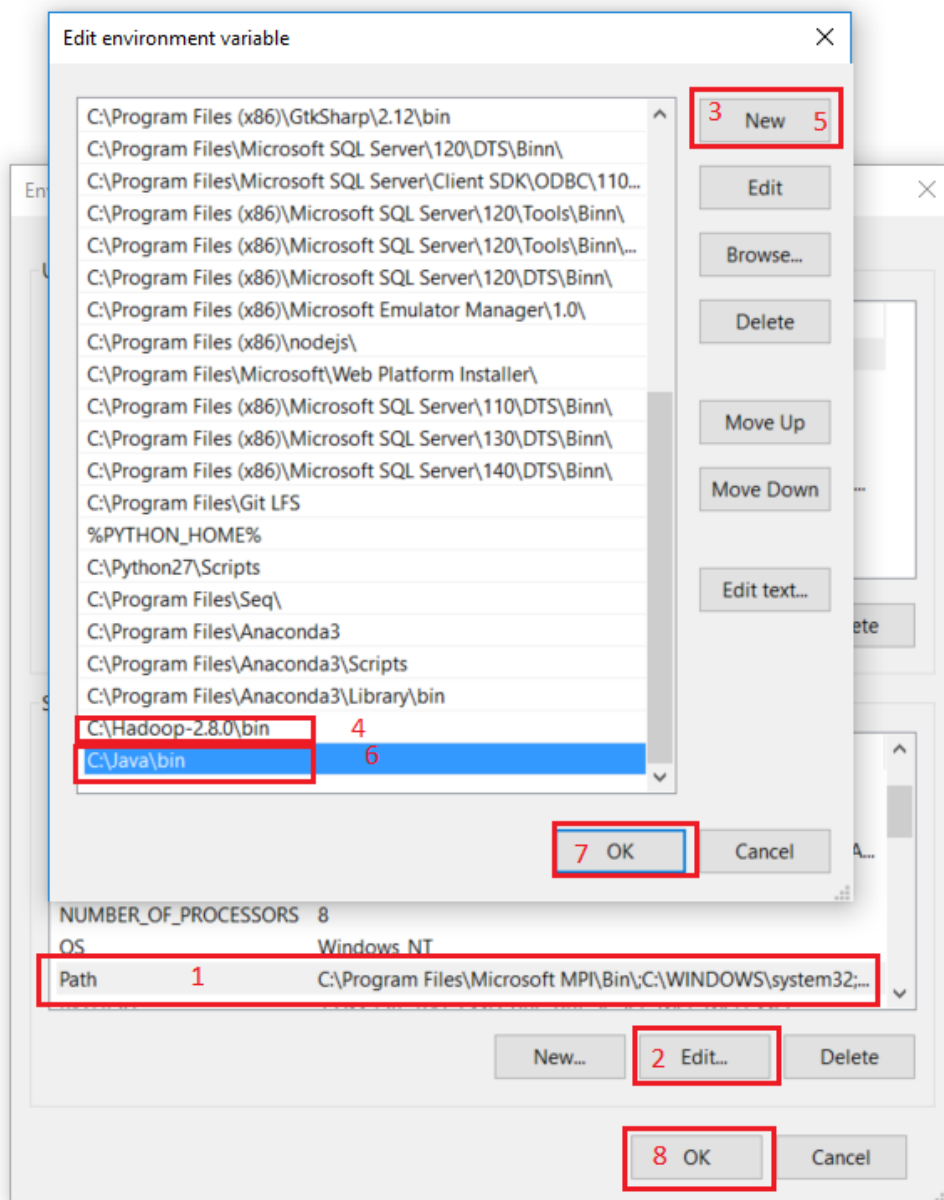
below).

5. Set the path JAVA_HOME Environment variable on windows 10(see Step 1,2,3 and 4

below).

6. Next we set the Hadoop bin directory path and JAVA bin directory

path.

Configuration

1. Edit file **C:/Hadoop-2.8.0/etc/hadoop/core-site.xml**, paste below xml paragraph and save this file.

```
<configuration>
   <property>
       <name>fs.defaultFS</name>
       <value>hdfs://localhost:9000</value>
   </property>
</configuration>
```

2. Rename "mapred-site.xml.template" to "mapred-site.xml" and edit this file **C:/Hadoop-2.8.0/etc/hadoop/mapred-site.xml**, paste below xml paragraph and save this file.

```xml
<configuration>
   <property>
       <name>mapreduce.framework.name</name>
       <value>yarn</value>
   </property>
</configuration>
```

3. Create folder **"data"** under **"C:\Hadoop-2.8.0"**

- Create folder **"datanode"** under **"C:\Hadoop-2.8.0\data"**
- Create folder **"namenode"** under **"C:\Hadoop-2.8.0\data"**

Name	Date modified	Type	Size
bin	7/20/2017 2:14 PM	File folder	
data	7/20/2017 2:47 PM	File folder	
etc	7/20/2017 2:14 PM	File folder	
include	7/20/2017 2:14 PM	File folder	
lib	7/20/2017 2:14 PM	File folder	
libexec	7/20/2017 2:14 PM	File folder	
sbin	7/20/2017 2:14 PM	File folder	
share	7/20/2017 2:20 PM	File folder	
LICENSE.txt	3/17/2017 10:31 AM	TXT File	97 KB
NOTICE.txt	3/17/2017 10:31 AM	TXT File	16 KB
README.txt	3/17/2017 10:31 AM	TXT File	2 KB

4. Edit file **C:\Hadoop-2.8.0/etc/hadoop/hdfs-site.xml**, paste below xml paragraph and save this file.

```xml
<configuration>
   <property>
       <name>dfs.replication</name>
       <value>1</value>
   </property>
   <property>
       <name>dfs.namenode.name.dir</name>
       <value>C:\hadoop-2.8.0\data\namenode</value>
   </property>
   <property>
       <name>dfs.datanode.data.dir</name>
       <value>C:\hadoop-2.8.0\data\datanode</value>
   </property>
</configuration>
```

5. Edit file **C:/Hadoop-2.8.0/etc/hadoop/yarn-site.xml**, paste below xml paragraph and save this file.

```xml
<configuration>
   <property>
        <name>yarn.nodemanager.aux-services</name>
        <value>mapreduce_shuffle</value>
   </property>
   <property>
        <name>yarn.nodemanager.auxservices.mapreduce.shuffle.class</name>
        <value>org.apache.hadoop.mapred.ShuffleHandler</value>
   </property>
</configuration>
```
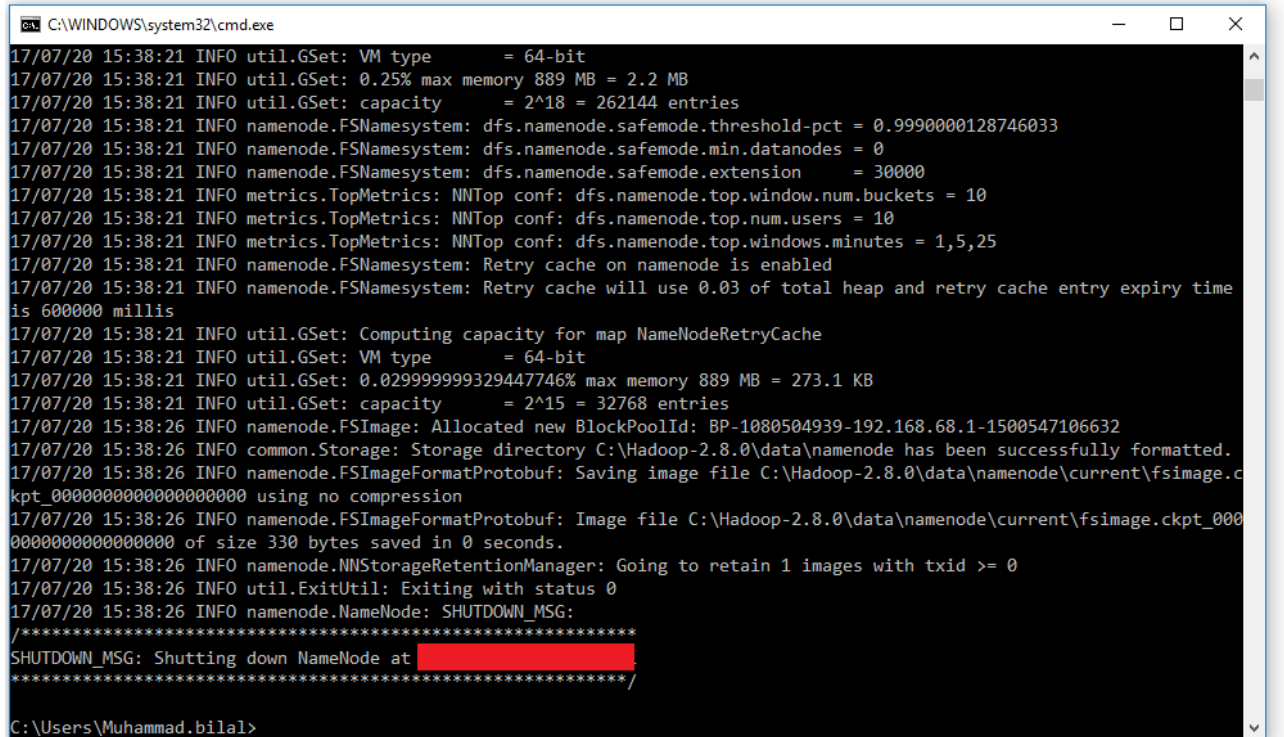
6. Edit file **C:/Hadoop-2.8.0/etc/hadoop/hadoop-env.cmd** by closing the command line**"JAVA_HOME=%JAVA_HOME%"** instead of set **"JAVA_HOME=C:\Java"** (On C:\java this is path to file jdk.18.0)

```
@rem The java implementation to use.  Required.
@rem set JAVA_HOME=%JAVA_HOME%
set JAVA_HOME=C:\java
```

Hadoop Configuration

1. Dowload file Hadoop Configuration.zip
   (Link: https://github.com/MuhammadBilalYar/HADOOP-INSTALLATION-ON-WINDOW-10/blob/master/Hadoop%20Configuration.zip)
2. Delete file bin on C:\Hadoop-2.8.0\bin, replaced by file bin on file just download (from Hadoop Configuration.zip).

** Mahesh Deshmukh
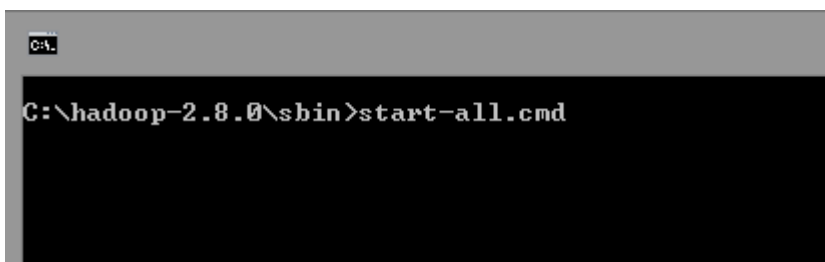
3. Open cmd and typing command **"hdfs namenode –format"** . You will
   see

Testing

1. Open cmd and change directory to "C:\Hadoop-2.8.0\sbin" and type **"start-all.cmd"** to start apache.

2. Make sure these apps are running

- Hadoop Namenode
- Hadoop datanode
- YARN Resourc Manager
- YARN Node Manager

** Mahesh Deshmukh

3. Open: http://localhost:8088

** Mahesh Deshmukh

4. Open: http://localhost:50070

Congratulations, Hadoop installed.

Reference Link :

https://github.com/MuhammadBilalYar/Hadoop-On-Window/wiki/Step-by-step-Hadoop-2.8.0-installation-on-Window-10

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Dependencies used in maven project :

```xml
<dependencies>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>3.8.1</version>
    <scope>test</scope>
  </dependency>

  <dependency>
        <groupId>log4j</groupId>
        <artifactId>log4j</artifactId>
        <version>1.2.17</version>
  </dependency>

  <dependency>

   <groupId>org.apache.hadoop</groupId>
   <artifactId>hadoop-client</artifactId>
   <version>2.8.0</version>
   </dependency>


  <dependency>
      <groupId>org.apache.hadoop</groupId>
      <artifactId>hadoop-common</artifactId>
      <version>2.8.0</version>
  </dependency>


  <dependency>
      <groupId>org.apache.hive</groupId>
      <artifactId>hive-exec</artifactId>
      <version>2.0.0</version>
  </dependency>


  <dependency>
      <groupId>org.apache.hadoop</groupId>
      <artifactId>hadoop-yarn-api</artifactId>
      <version>2.8.0</version>
  </dependency>


</dependencies>
```

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