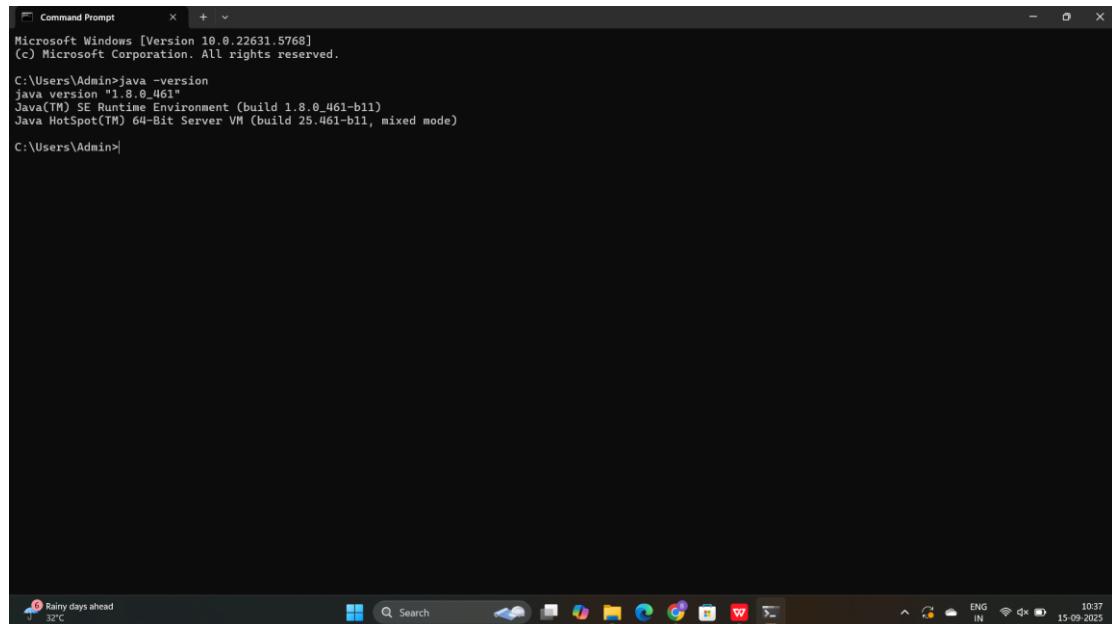


Experiment 1_Hadoop Installation

Step - 1

Java has been successfully Installed in System in C Drive.



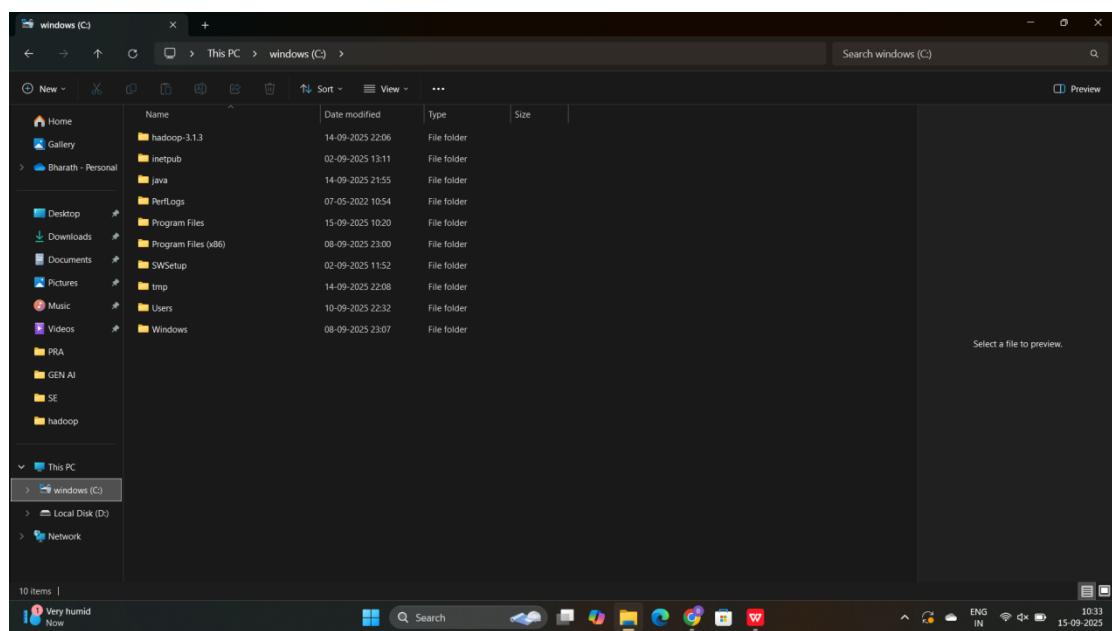
```
Microsoft Windows [Version 10.0.22631.5768]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin>java -version
java version "1.8.0_461"
Java(TM) SE Runtime Environment (build 1.8.0_461-b11)
Java HotSpot(TM) 64-Bit Server VM (build 25.461-b11, mixed mode)

C:\Users\Admin>
```

Step - 2

Hadoop has been Installed Successfully in System in C Drive.



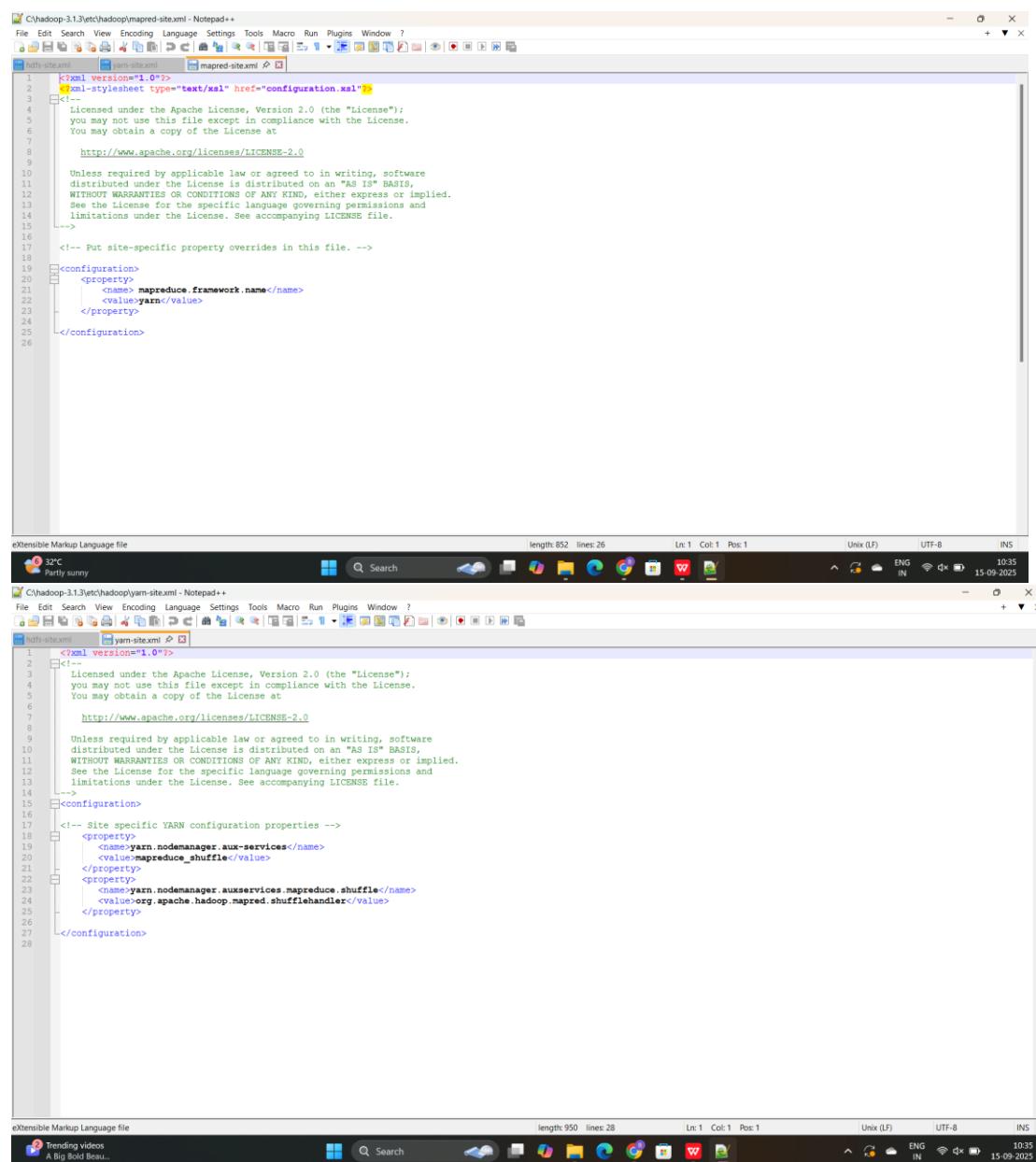
Step - 3

Created environmental Variable and path for both java and hadoop

Step - 4

Edit Configurations:

We need to edit some files located in the hadoop directory of the etc folder where we installed hadoop. (C:\hadoop\etc\hadoop)



The image shows three separate windows of Notepad++ displaying XML configuration files for HDFS and YARN.

Top Window (HDFS Configuration):

```
<?xml version="1.0"?>
<!-- $Id$ -->
<!-- Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License. See accompanying LICENSE file.
-->
<!-- Put site-specific property overrides in this file. -->
<configuration>
<property>
<name> mapreduce.framework.name</name>
<value>yarn</value>
</property>
</configuration>
```

Middle Window (YARN Configuration):

```
<?xml version="1.0"?>
<!-- $Id$ -->
<!-- Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the license. See accompanying LICENSE file.
-->
<!-- Site specific YARN configuration properties -->
<configuration>
<property>
<name>yarn.nodemanager.aux-services</name>
<value>mapreduce_shuffle</value>
</property>
<property>
<name>yarn.nodemanager.auxservices.mapreduce.shuffle</name>
<value>org.apache.hadoop.mapred.ShuffleHandler</value>
</property>
</configuration>
```

Bottom Window (Another YARN Configuration):

```
<?xml version="1.0"?>
<!-- $Id$ -->
<!-- Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the license. See accompanying LICENSE file.
-->
<!-- Site specific YARN configuration properties -->
<configuration>
<property>
<name>yarn.nodemanager.aux-services.mapreduce.shuffle</name>
<value>org.apache.hadoop.mapred.ShuffleHandler</value>
</property>
</configuration>
```

C:\hadoop-3.1.3\etc\hadoop\hdfs-site.xml - Notepad++

```

<?xml version="1.0" encoding="UTF-8"?>
<!--<?xml-stylesheet type="text/xsl" href="configuration.xsl"?-->
<!--
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
-->
<!-- Put site-specific property overrides in this file. -->
<configuration>
  <property>
    <name>dfs.replication</name>
    <value>1</value>
  </property>
  <property>
    <name>dfs.namenode.name.dir</name>
    <value>C:\hadoop-3.1.3\data\namenode</value>
  </property>
  <property>
    <name>dfs.datanode.name.dir</name>
    <value>C:\hadoop-3.1.3\data\datanode</value>
  </property>
</configuration>

```

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C:\hadoop-3.1.3\etc\hadoop\hadoop-env.cmd - Notepad++

```

@echo off
rem Licensed to the Apache Software Foundation (ASF) under one or more
rem contributor license agreements. See the NOTICE file distributed with
rem this work for additional information regarding copyright ownership.
rem The ASF licenses this file to You under the Apache License, Version 2.0
rem (the "License"); you may not use this file except in compliance with
rem the License. You may obtain a copy of the License at
rem http://www.apache.org/licenses/LICENSE-2.0
rem
rem Unless required by applicable law or agreed to in writing, software
rem distributed under the License is distributed on an "AS IS" BASIS,
rem WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
rem See the License for the specific language governing permissions and
rem limitations under the License.
rem
rem Set Hadoop-specific environment variables here.
rem The only required environment variable is JAVA_HOME. All others are
rem optional. When running a distributed configuration it is best to
rem set JAVA_HOME in this file, so that it is correctly defined on
rem remote nodes.
rem
rem The java implementation to use. Required.
set JAVA_HOME=C:\java\jdk-1.11.0
rem The Jsvc implementation to use. Jsvc is required to run secure datanodes.
rem set JSVC_HOME=%JSVC_HOME%
rem set HADOOP_CONF_DIR=
rem
rem Extra Java CLASSPATH elements. Automatically insert capacity-scheduler.
if exist %HADOOP_HOME%\contrib\capacity-scheduler (
  if not defined HADOOP_CLASSPATH (
    set HADOOP_CLASSPATH=%HADOOP_HOME%\contrib\capacity-scheduler\*.jar
  ) else (
    set HADOOP_CLASSPATH=%HADOOP_CLASSPATH%;%HADOOP_HOME%\contrib\capacity-scheduler\*.jar
  )
)
rem The maximum amount of heap to use, in MB. Default is 1000.
rem set HADOOP_HEAPSIZE=
rem set HADOOP_NAMENODE_INIT_HEAPSIZE=""
rem
rem Extra唐镜配置选项。参数由 default

```

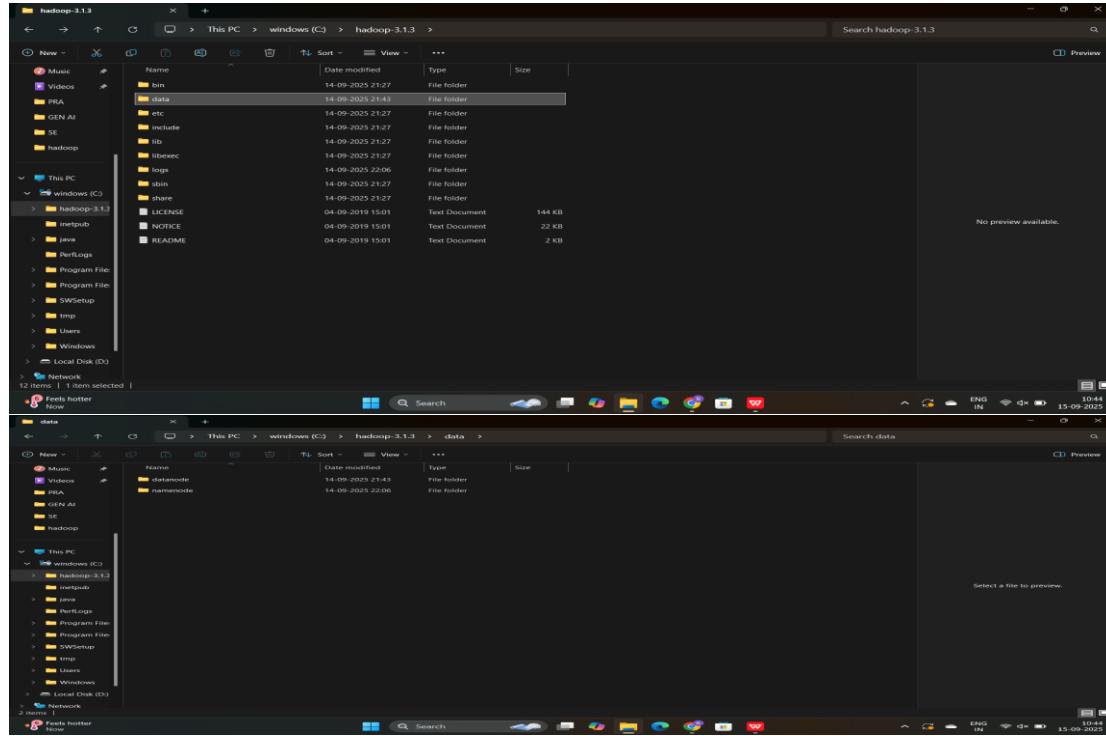
Batch file length: 4,001 lines: 90 Ln: 1 Col: 1 Pos: 1 Windows (CR LF) UTF-8 INS

News for you
ITR filing last date... length: 4,001 lines: 90 Ln: 1 Col: 1 Pos: 1 Windows (CR LF) UTF-8 INS

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ? + ▾ ×

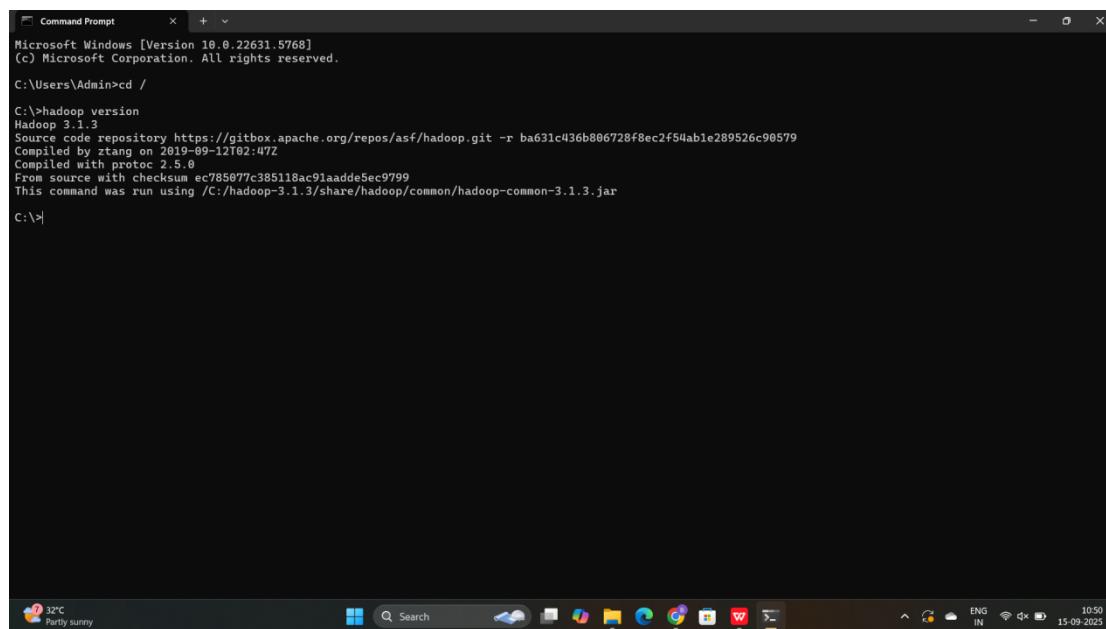
Step - 5

Created a folder named data in that created datanode and namenode as sub folder in it



Step - 6

Hadoop has been installed successfully in the system.



Step - 7

Formatting the NameNode