# Experiment 1_Hadoop Installation

Step - 1

Java has been successfully Installed in System in C Drive.
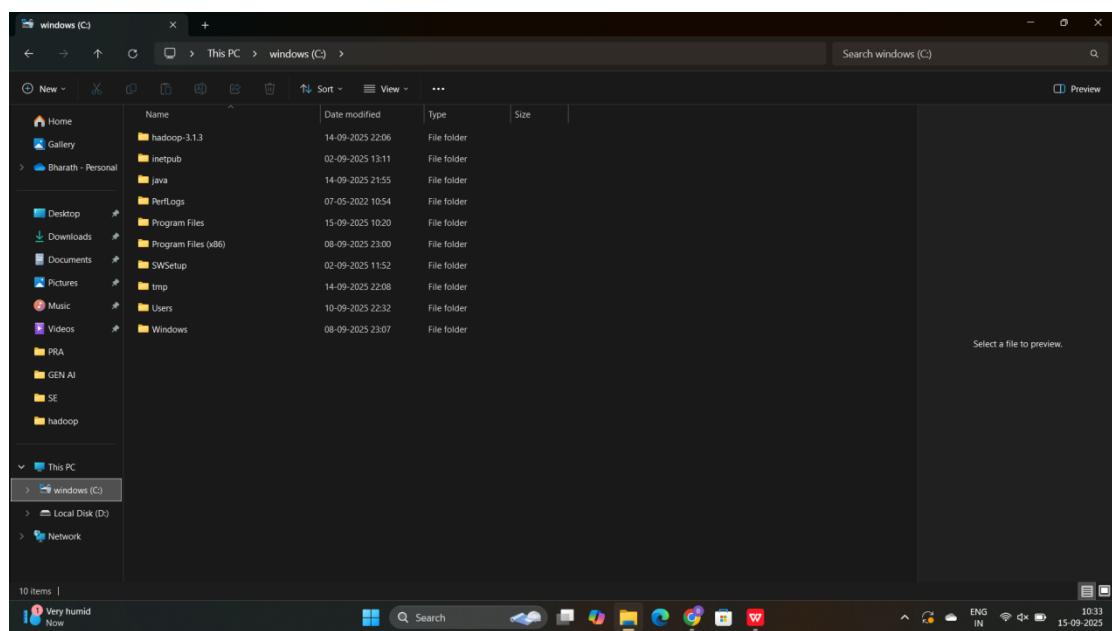
Step - 2

Hadoop has been Installed Successfully in System in C Drive.
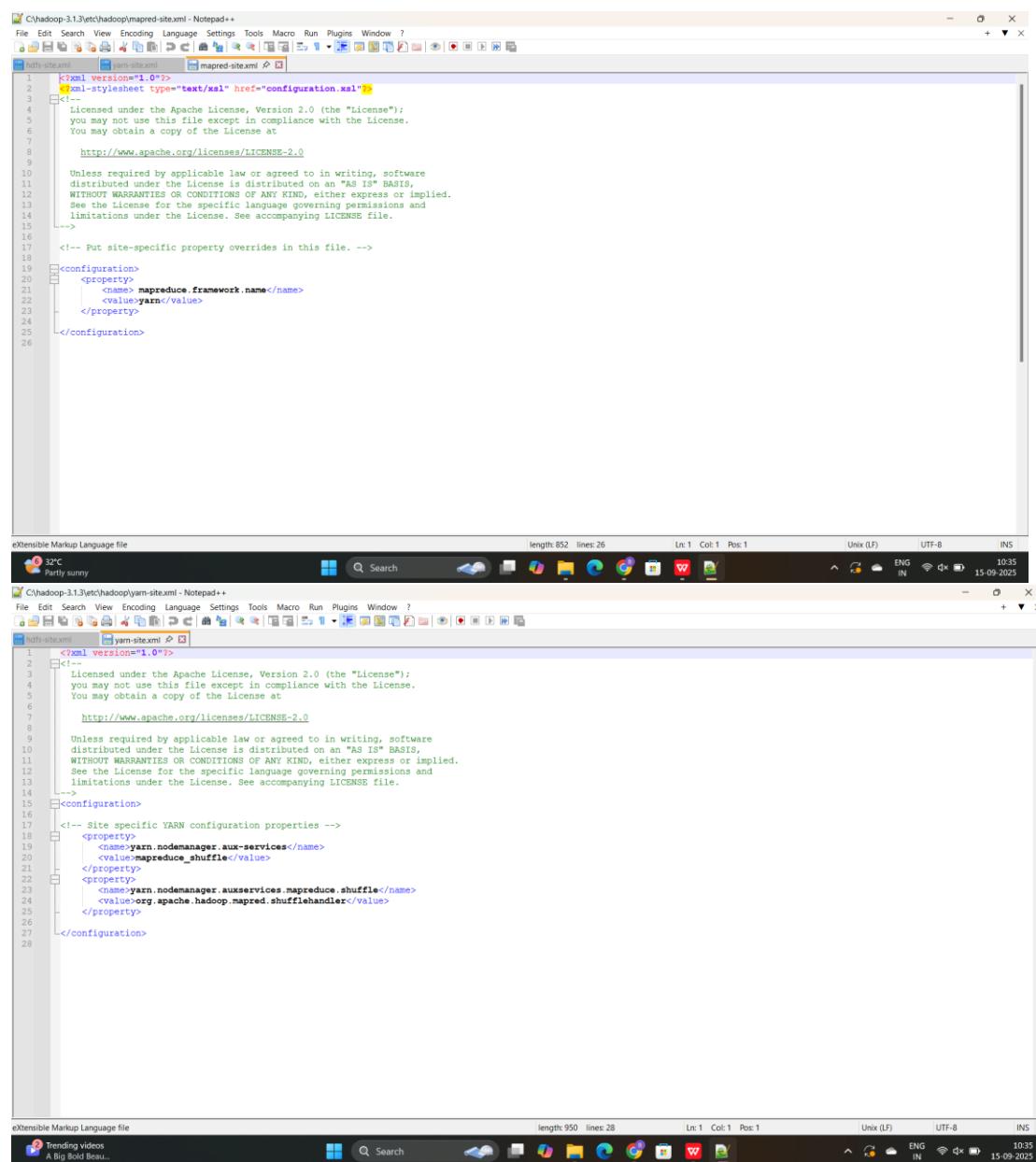
Step - 3

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)

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hdfs-site.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<!--
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  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

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  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>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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hadoop-env.cmd

```
@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
@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 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 The java implementation to use.  Required.
set JAVA_HOME=C:\java\jdk-1.8
@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 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 Extra Java runtime options.  Empty by default.
```
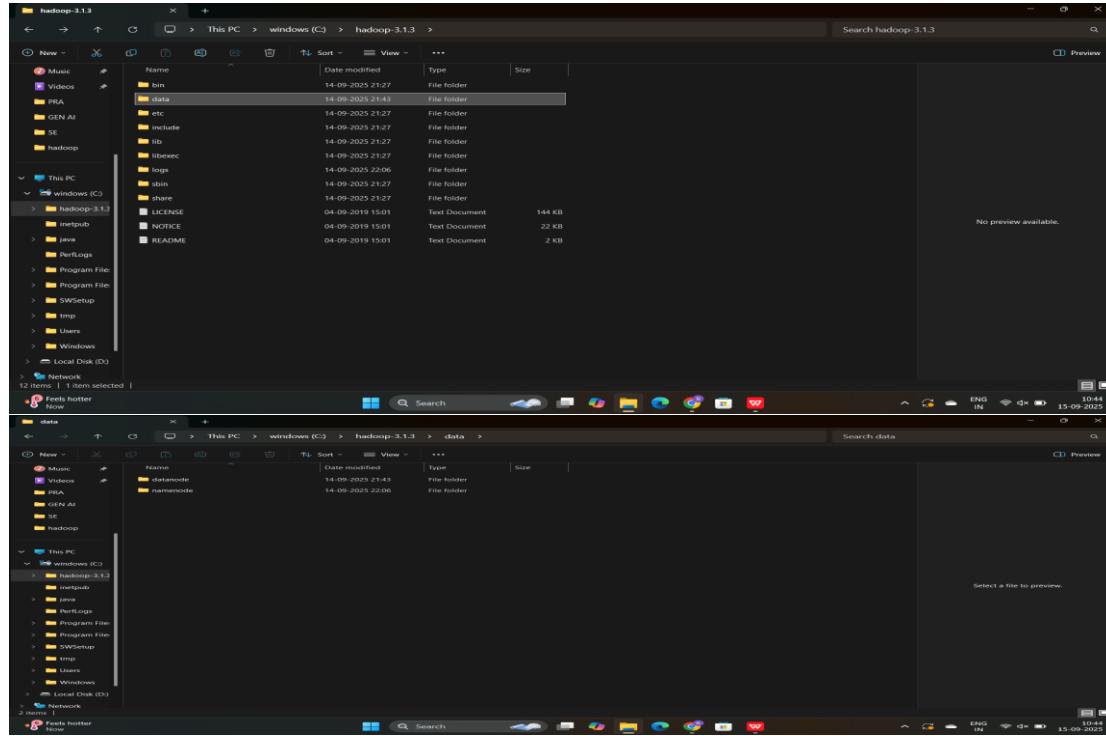
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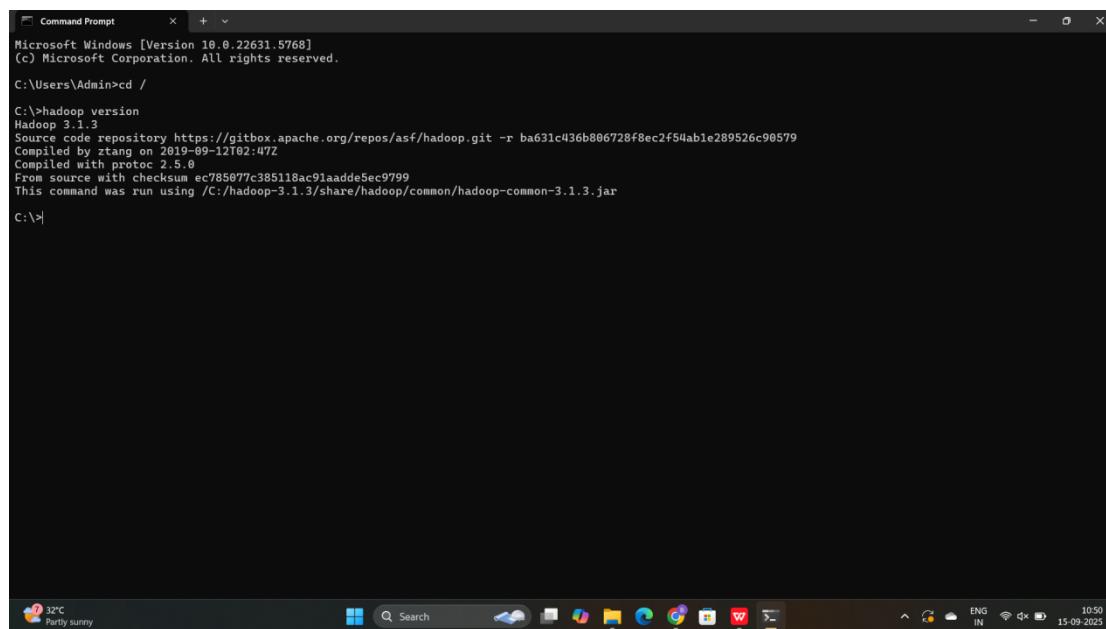
Step - 5

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